

МГ-311 EQUIPMENT

FOLDER N3

DIAGRAMS AND PARTS LISTS

ЛУ1106.046 ОП6

"MT" 311"

FOLDER No 3

Diagrams and Parts Lists

JVI.106.046 On6

On 67 sheets

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ЛУ1.105.046 Оч 3

С О Д Е Р Ж А Н И Е

Doc. No.	Code	Name	Number of Copy Sheet No. Pages
ЛУ2.390.048 ОхД	4	Cabinet Circuit Diagram	1
ЛУ2.039.032 ОхФ	YC 1	Functional Diagram	1
ЛУ2.039.032 ОхД	YC 1	Circuit Diagram	1
ЛУ2.039.032 Л	YC 1	Parts List	2
ЛУ2.067.053 ОхД	Filter	Circuit Diagram	1
ЛУ2.219.007 ОхД	Converter	Circuit Diagram	1
ЛУ2.039.035 ОхФ	YC 1A	Functional Diagram	1
ЛУ2.039.035 ОхД	YC 1A	Circuit Diagram	1
ЛУ2.039.035 Л	YC 1A	Parts List	2
ЛУ2.067.059 ОхД	Filter	Circuit Diagram	1
ЛУ2.067.061 ОхД	Filter	Circuit Diagram	1
ЛУ2.039.200 ОхФ	YC 3	Functional Diagram	1
ЛУ2.039.200 ОхД	YC 3	Circuit Diagram	1
ЛУ2.039.200 Л	YC 3	Parts List	2
ЛУ2.111.004 ОхД	Converter	Circuit Diagram	1
ЛУ2.111.004 ОхФ	YC 1	Functional Diagram	1
ЛУ2.111.004 Л	YC 1	Parts List	2
ЛУ2.111.004 ОхД	YC 1	Circuit Diagram	1

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ЛУ1.106.046 Оп 6

Doc. No.	Code	Name	No. of sheets	Copy No.	Remark
ЛУ2.039.057 CxФ	УС 4	Functional Diagram	1		
ЛУ2.039.057 CxД	УС 4	Circuit Diagram	1		
ЛУ2.039.057 Д	УС 4	Parts List	4		
ЛУ2.096.003 CxД	УС 2	Circuit Diagram	1		
ЛУ2.087.084 CxД	ВН 1	Circuit Diagram	1		
ЛУ2.087.084 Д	ВН 1	Parts List	4		
ЛУ2.087.085 CxД	ВН 2	Circuit Diagram	1		
ЛУ2.087.085 Д	ВН 2	Parts List	5		

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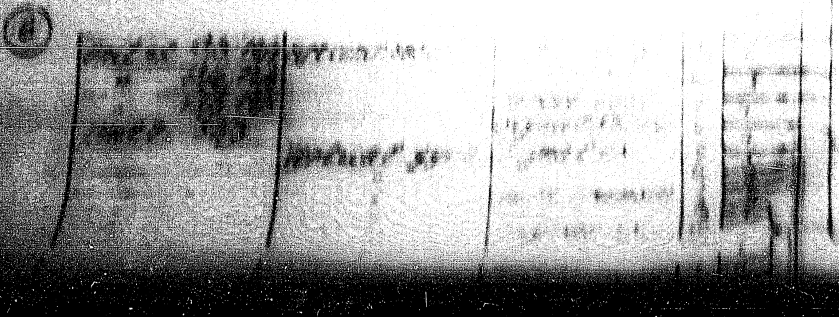
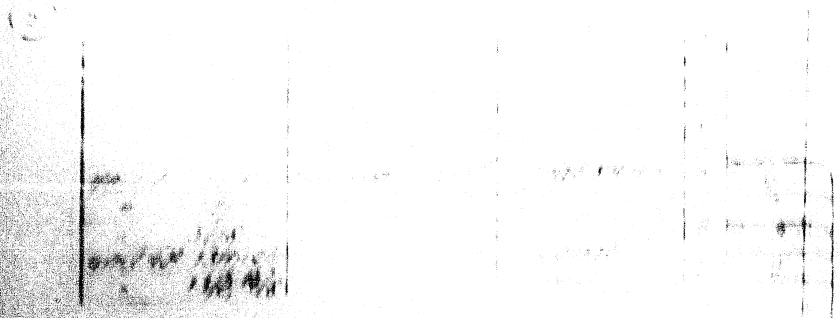
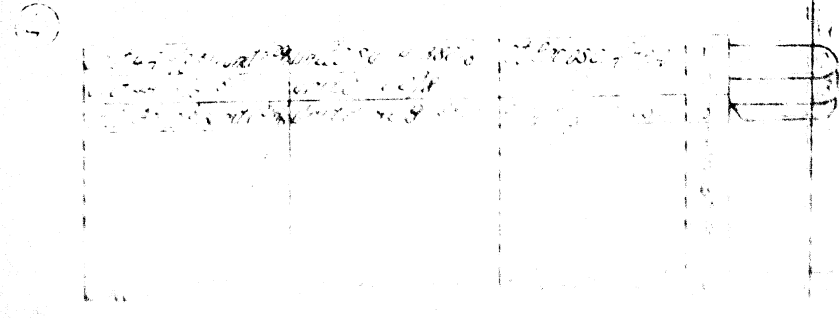
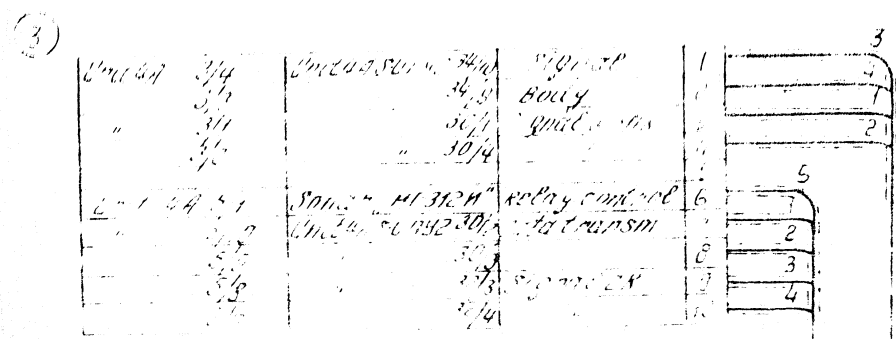
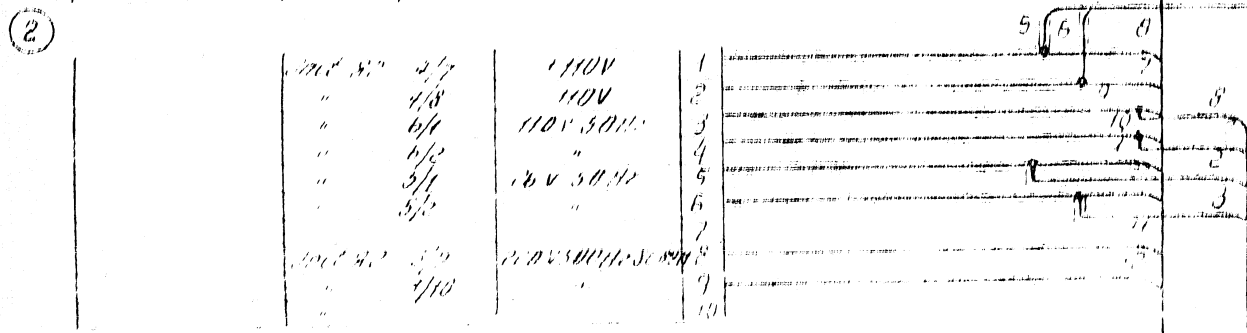
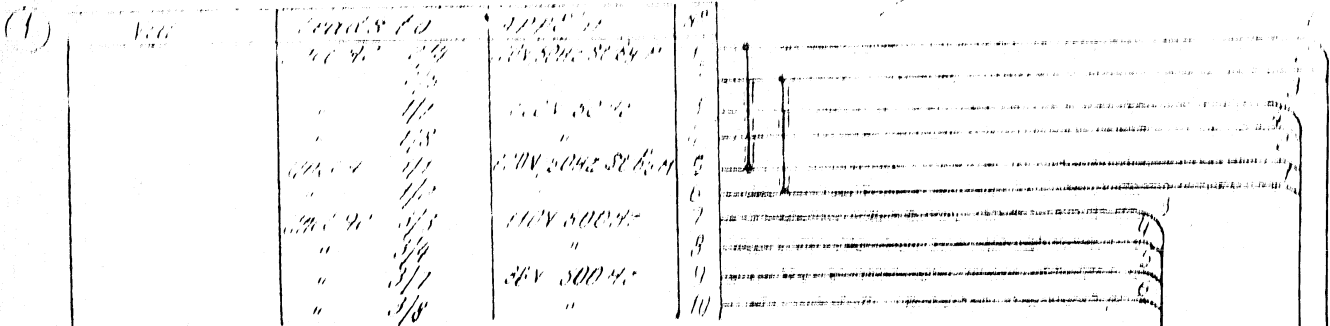
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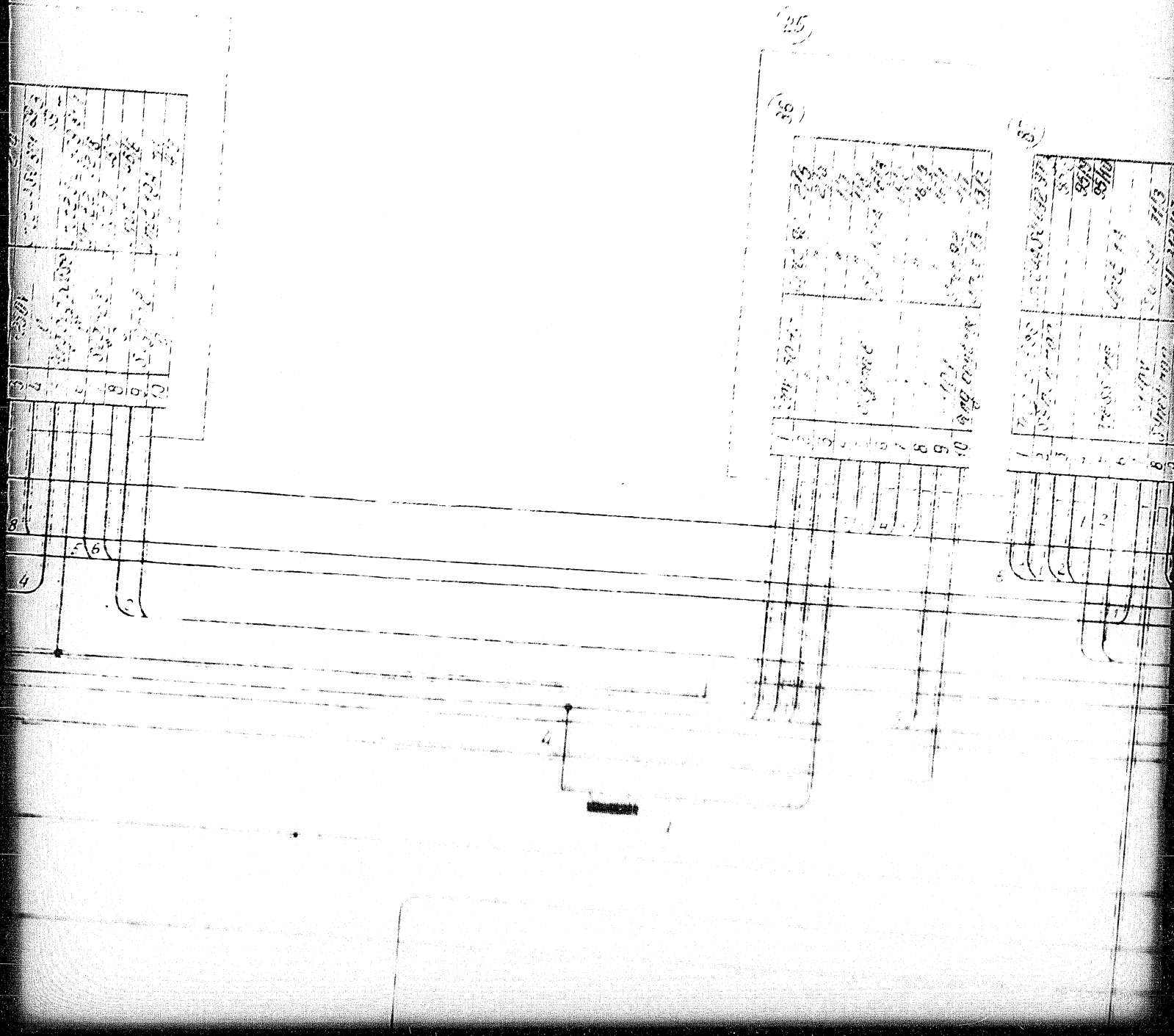
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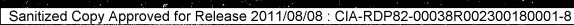
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No	App'n	Leads to	Val
1	Course phase	Unit 19A	7/1
2	Course phase	"	7/1
3	26V 50HZ	"	7/2
4	8V phase CR	"	7/3
5	" 2 CR	"	7/2
6	" 3 CR	"	7/1
7	110V 50HZ	"	6/4
8	"	"	6/5
9	2V 50HZ	"	6/1
10	"	"	6/2

11

1	8.970E	Unit 19A	4/1
2	"	"	4/2
3	Synchron	Unit 4ASUUE 93/5	Unit 4A 3/7
4	"	"	93/8
5	Body	"	93/8
6	Synchron	"	96/6
7	50V	"	97/5
8	TRQ pulse	"	97/9
9	Synchron	"	97/3
10	+250V	Unit 4ASUB 69/5	95/8
			3/6
			4/2

12

1	-105V	Unit 4ASUB 69/7	Unit 4A 4/4
2	+250V	"	69/1
3	"	"	69/2
4	0	"	69/6
5	+24V	"	69/8
6	+250V	"	69/3
7	0	"	69/4
8	0	"	69/4
9	0	"	69/4
10	PR PREG 602B	Unit 2S-URH 383/6	Unit 2 23/5

13

1	110V 50HZ	Unit 11	7/4
2	110V 50HZ	"	7/5
3	Body	Unit 4	
4	8V phase CR	Unit 2S-URH 381/1	Unit 2 22/1
5	" 2 CR	"	381/2
6	" 3 CR	"	381/3
7	Course phase 3K	Unit 11	7/6
8	Ship speed V1	Unit 2S-URH 381/6	Unit 2 22/6
9	" V2	"	381/7
10	Pulse length	"	382/1
			23/4

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1	Pulse length	Unit 2S-URH 383/4	Unit 2 23/6
2	"	"	"
3	110V	Unit 2S-URH 382/3	Unit 2 23/6
4	110V 50HZ	Unit 11	7/6
5	"	"	7/6
6	Body	Unit 4	
7	Signal 4K	Unit 10A 62 con 4	Unit 93 1/1
8	"	"	5
9	Pressure	Unit 11	
10	"	"	

Parts list

Ref. No	Standard Spec. or dwg. No	Name, type	Value	No
12,3	HA3656.007Cn	Terminal block, type 2	6A	3
4,5,6	HA3656.007Cn	Terminal block, type 2	6A	3
7,8,9	HA3656.007Cn	Terminal block, type 2	6A	3
10,11	HA3656.007Cn	Terminal block, type 2	6A	2
12,13	HA3656.007Cn	Terminal block, type 2	6A	2
14,15	HA3656.007Cn	Terminal block, type 2	6A	
16,17	HA3656.007Cn	Terminal block, type 2	6A	
18,19	HA3656.007Cn	Terminal block, type 2	6A	
20	HA3656.007Cn	Terminal block, type 2	6A	
21	HA3656.000Cn	Base		1
22	HA2039.032Cn	Sub-unit 401		1
23	HA2039.035Cn	Sub-unit 402		1
24	HA2039.034Cn	Sub-unit 403		1
25	HA2048.053Cn	Sub-unit 404		1
26	HA2338.004Cn	Sub-unit 405		1
27	HA4162.029Cn	762 net		1

Leads to	Via
Unit 11 7/7	
" 7/8	
" 7/12	
" 7/13	
" 7/12	
" 7/11	
" 6/4	
" 6/5	
" 6/1	
" 6/2	

Unit 19A 4/1	
" 4/2	
Unit 4A 3/7	
" 95/10	" 3/8
" 96/6	" 3/9
" 97/5	" 8/6
" 97/9	" 4/1
" 97/3	" 3/5
" 95/8	" 3/6
Unit 4A 69/5	" 4/2

Unit 4A 69/7	Unit 4A 4/4
" 69/1	" 4/5
" 69/2	" 4/6
" 69/8	" 4/7
" 69/3	" 5/3
" 69/4	" 5/2
Unit 4A 69/7	
Unit 2S-UIH 383/6	Unit 2 23/5

Unit 11 7/4	
" 7/5	
Unit 4	
Unit 2S-UIH 381/1	Unit 2 22/1
" 381/2	" 22/2
" 381/3	" 22/3
Unit 11 7/5	
Unit 2S-UIH 381/6	Unit 2 22/6
" 381/7	" 22/7
" 382/1	" 23/4

Unit 2S-UIH 383/4	Unit 2 23/6
Unit 2S-UIH 382/3	Unit 2 24/2
Unit 1 cab 1 con 2	Unit 93 1/2
" " 7	Unit 93 1/1
Unit 4	
Unit 1 cab 2 con 4	Unit 93 2/4
" " 5	" 2/5
Unit 1A	" 4/6
"	" 4/7

Parts list

Ref. No	Standard Spec. or awg. No	Name, type	Value	No	Remark
1,2,3	H13.656.007Cn	Terminal block, type 2	6A	3	
4,5,6	H13.656.007Cn	Terminal block, type 2	6A	3	
7,8,9	H13.656.007Cn	Terminal block, type 2	6A	3	
10,11	H13.656.007Cn	Terminal block, type 2	6A	2	
12,13	H13.656.007Cn	Terminal block, type 2	6A	2	
14,15	H13.656.007Cn	Terminal block, type 2	6A	2	
16,17	H13.656.007Cn	Terminal block, type 2	6A	2	
18,19	H13.656.007Cn	Terminal block, type 2	6A	2	
20	H13.656.007Cn	Terminal block, type 2	6A	1	
21	H13.609.000Cn	Base		1	
22	142.039.032Cn	Sub-unit 901		1	
23	142.039.035Cn	Sub-unit 901A		1	
24	142.039.034Cn	Sub-unit 903		1	
25	142.048.053Cn	Sub-unit 031		1	
26	142.338.004Cn	Sub-unit 131		1	
27	144.106.049Cn	Cabinet		1	

Unit 17	51/6	fire contr. syst.	signal RY (R)	1	3
"	51/7	"	"	2	4
"	51/8	"	"	3	5
Unit 14	13/14/15	"	"	4	6
"	13/15/16	"	signal	5	7
"	13/16/17	"	-110V	6	8
				7	9
				8	10

6

Unit 14	13/14/15	fire contr. syst.	take "cadg	1	2
"	13/14/16	"	-110V	2	3
"	13/15/16	"	target east	3	4
Unit 7	51/5	vertical gyro	signal RY (R)	4	5
		"	signal RZ	5	6
		"	"	6	7
		"	data transm.	7	8
		"	"	8	9
		"	signal SR	9	10
		"	"	10	1

7

		vertical gyro	signal RY (R)	1	2
		"	"	2	3
		"	signal RY (R)	3	4
		"	"	4	5
		"	signal RY (R)	5	6
		"	"	6	7
Unit 14	29/6	sonar, "H-312H"	entry	7	8
"	29/7	"	synchro	8	9
"	29/8	"	relay control	9	10
				10	5

8

Unit 14	29/6	"H-312H"	Phase 3 (A)	1	15
"	29/5	"	Phase 2 (A)	2	13
"	29/4	"	Phase 1 (A)	3	17
"	16/9	"	-110V, 50Hz	4	16
"	16/10	"	"	5	15
				6	
				7	
Unit 14	28/2	"H-312H"	signal RC	8	12
"	28/3	"	"	9	11
				10	

9

Unit 14	16/8	sonar, "H-312H"	long des sig (R)	1	10
"	16/7	"	"	2	9
"	16/6	"	"	3	8
"	16/5	"	"	4	7
"	28/5	"	long des axen	5	6
"	28/4	"	take targ. d	6	5
"	16/1	"	26V 50Hz	7	4
"	28/1	"	target east	8	3
"	28/6	"	signal RSC II	9	2
"	28/7	"	signal RSC II	10	1

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Unit 13	17/6	signal	1	2
"	17/5	signal	2	1
"	17/8	signal	3	4
"	17/7	signal	4	3
Unit 7	45/3	signal RSC II	5	
"	45/2	signal RSC III	6	
Unit 1 ca84 con6		26V, 50Hz	7	21
Unit 1 ca84 con6		114H PH 11R	8	22
"	27/7	"	9	23
"	27/6	Unit 1 ca82 con6	10	

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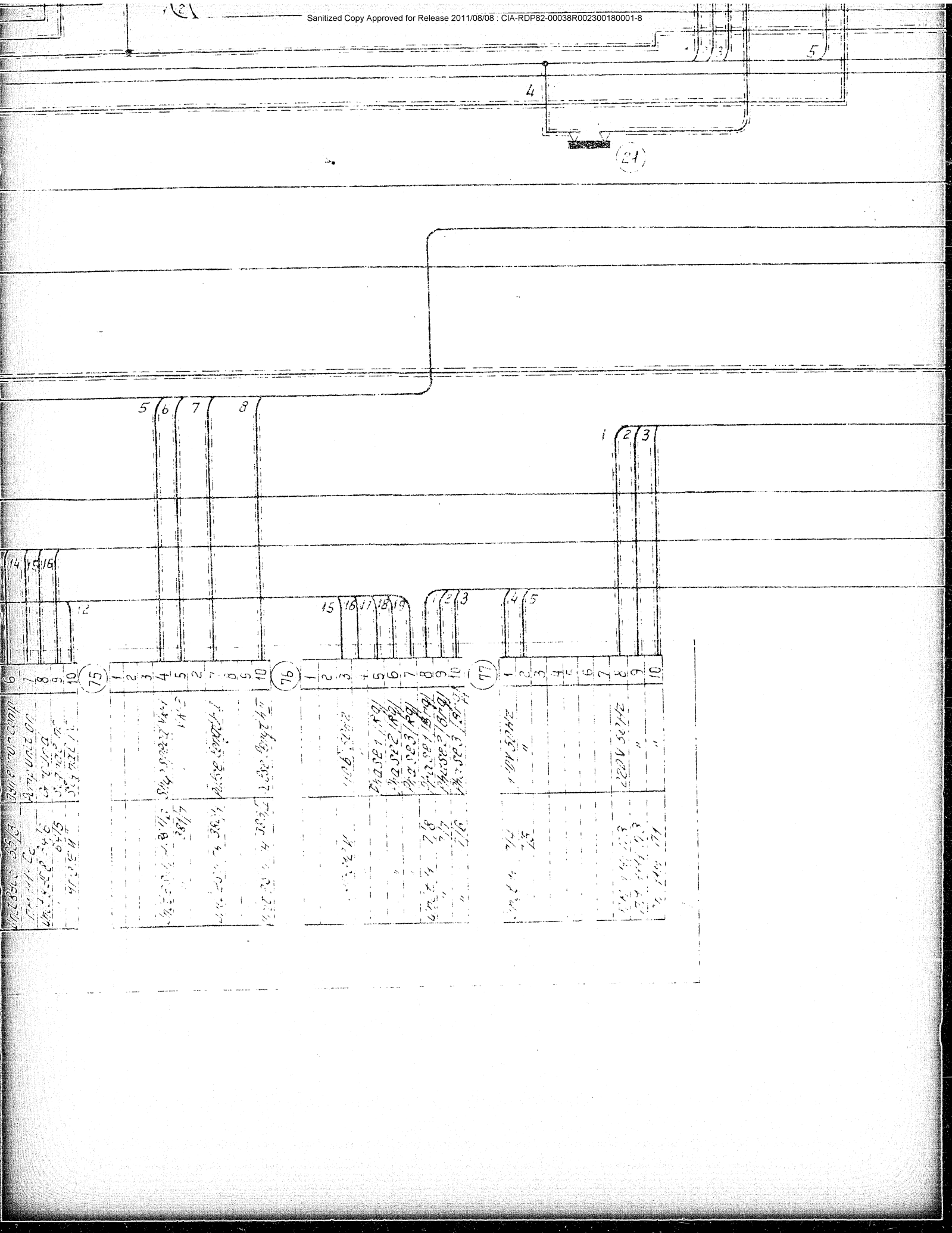
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3	4	8	1	2	11	12	3	4	5	6	7	8	1	2	3	9	10	6	7	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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10 110V 50Hz
Unit 2 23/5

Unit 2 23/5

23 192039.0350n SUB-UNIT
24 192039.0340n SUB-UNIT
25 192048.0530n SUB-UNIT
26 192338.0040n SUB-UNIT
27 194126.2490n CABINET

1	110V 50Hz	Unit 11 7/4	
2	110V 50Hz	" 7/5	
3	Body	Unit 4	
4	Brig phase 1 CR	Unit 2 23/1	Unit 2 22/1
5	" 2 CR	" 38/12	" 22/2
6	" 3 CR	" 38/13	" 22/3
7	Course phase 3X	Unit 4 7/6	
8	Ship speed V1	Unit 2 23/1	Unit 2 22/6
9	" V2	" 38/17	" 22/7
10	Pulse length	" 38/11	" 23/4

1	Pulse length	Unit 2 23/1	Unit 2 23/6
2			
3	110V	Unit 2 23/1	Unit 2 24/2
4	110V 50Hz	Unit 1 cab 1 con 2	Unit 93 1/2
5	"	" 7	Unit 93 1/1
6	Body	Unit 4	
7	Signal 24K	Unit 1 cab 2 con 4	Unit 93 2/4
8	"	" 5	" 2/5
9	Pressure	Unit 1 A	" 4/6
10	"	"	" 4/7

1	Signal 24K	Unit 1 cab 4 con 7	Unit 93 4/1
2	"	" 2	" 4/2
3	24K phase 1	Unit 1 cab 1 con 6	" 1/5
4	"	" 4	" 1/4
5	"	" 3	" 1/3
6	Signal 24K	Unit 1 cab 4 con 3	" 4/3
7	Body	" 4	" 4/4
8	220V 50Hz	Unit 1111-13	
9	"	Unit 1111-3	
10	"	Unit 1111-1	

1	+110V	Unit 7 33/1	
2	Signal	" 46/4	
3	"	" 46/5	
4	Signal	" 46/7	
5	"	" 46/6	
6	"		
7	"		
8	"		
9	"		
10	"		

1	110V SC 8000	Unit 7 49/7	
2	110V SC 4000	" 49/6	
3	110V SC 2000	" 49/5	
4	+110V	" 46/1	
5	Trig pulse	" 46/3	
6	+140V	" 48/5	
7	Exc 110V 50Hz	Fire control sys Unit 7 57/10	
8	"	" 57/9	
9	"		
10	"		

1	Track signal	Unit 8 4C7 58/3	Unit 8 1/7
2	Integr network	" 59/3	" 2/5
3	"	" 59/4	" 2/6
4	"		
5	"		
6	Body	Unit 8 4C7 58/9	Unit 8 1/8
7	AAN-236 control	Unit 8 4C8 64/1	" 1/5
8	"	Unit 8 4C8 64/2	" 1/6
9	AAN control	Unit 8 4C7 58/7	" 2/1
10	"	"	

15

1	Signal X NR	Unit 1064 con 7	Unit 93	4/1
2	"	"	"	4/2
3	7411 phase I	Unit 1061 con 6	"	1/5
4	"	"	"	1/4
5	"	"	"	1/3
6	"	"	"	1/2
7	Signal Brq	Unit 1064 con 3	"	4/3
8	Body	"	"	4/4
9	220V 50HZ	7M 1111-13	"	
10	"	7M 1111-3	"	
11	"	7M 1111-1	"	

16

1				
2	+110V	Unit 7	33/1	
3	signal	"	46/4	
4	0	"	46/5	
5	signal	"	46/7	
6	0	"	46/6	
7				
8				
9				
10				

17

1	110V SC 8000	Unit 7	49/7	
2	110V SC 4000	"	49/6	
3	110V SC 2000	"	49/5	
4	+110V	"	46/1	
5	trig pulse	"	46/3	
6	+110V	"	48/5	
7	110V 500HZ	fire control sys	Unit 7	57/10
8	"	"	"	57/9
9				
10				

18

1	Track signal	Unit 8 4C7	58/3	Unit 8	1/7
2	Integr network	"	59/3	"	2/5
3	"	"	59/4	"	2/6
4					
5					
6	Body	Unit 8 4C7	58/9	Unit 8	1/8
7	AP-235 control	Unit 8 4C8	64/1	"	1/5
8	"	Unit 8 4C8	64/2	"	1/6
9	AA7 control	Unit 8 4C7	58/7	"	2/1
10	"	"	58/8	"	2/2

19

1	Signal Brq	Unit 8 4C5	66/1	Unit 8	1/3
2	Body	"	66/2	"	1/4
3	+24V	Unit 2	22/4		
4	osm error comp	Unit 8 4C5	65/3	Unit 8	2/9
5	pump unit on	7M 1111-12	"	"	1/2
6	Body	Unit 8 4C8	64/6	"	2/8
7	Signal NC	"	64/5	"	2/7
8					
9	Body	Unit 4	18/6		
10					

unit 4
circuit
diagram

II	"	"	4	"	1/4
III	"	"	3	"	1/3
22 Brg	Unit 1	66/4	con 3	"	4/3
IV	"	"	4	"	4/4
50 Hz	77H 1111-103			"	
	77H 1111-3			"	
	77H 1111-1			"	

IV	Unit 7	53/1	
AL	"	46/4	
	"	46/5	
AL	"	46/7	
	"	46/6	

28000	Unit 7	49/7	
4000	"	49/6	
2000	"	49/5	
OV	"	46/1	
pulse	"	46/3	
OV	"	48/5	
1500 Hz	fire control sys	Unit 7	57/10
	"	"	57/9

Signal	Unit 8 4C7	58/3	Unit 8	1/7
Network	"	59/3	"	2/5
	"	59/4	"	2/6
	Unit 8 4C7	58/9	Unit 8	1/8
control	Unit 8 4C8	64/1	"	1/5
	Unit 8 4C8	64/2	"	1/6
ontrol	Unit 8 4C7	58/7	"	2/1
	"	58/8	"	2/2

28 Brg	Unit 8 4C5	66/1	Unit 8	1/3
	"	66/2	"	1/4
IV	Unit 2	22/4		
error	Unit 8 4C5	65/3	Unit 8	2/9
on	77H 1111-52		"	1/2
	Unit 8 4C8	64/6	"	2/8
ne ne	"	64/5	"	2/7
	Unit 4	18/6		

Unit 4
circuit
diagram

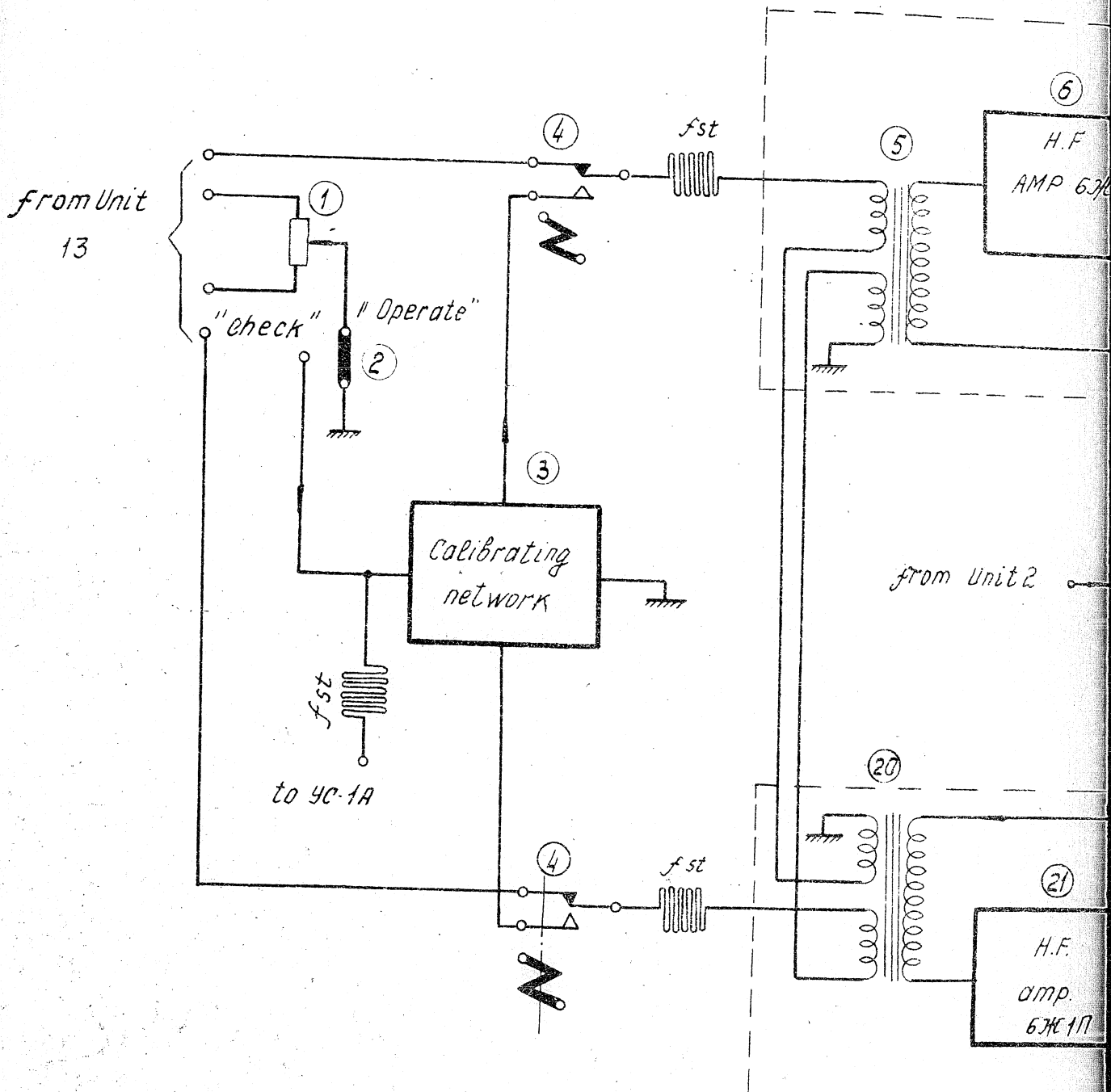
NY2.390.048C3

Sheet 1

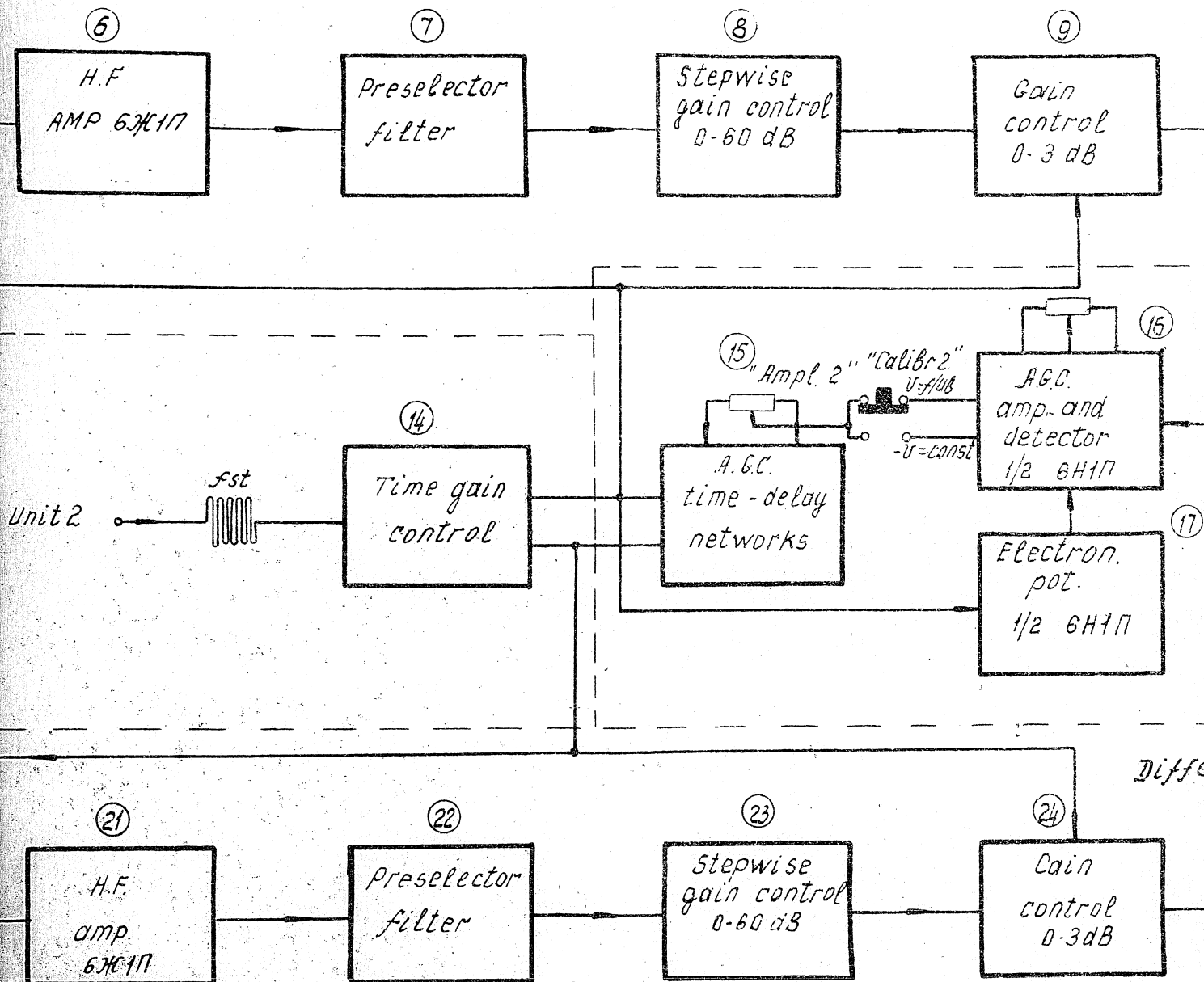
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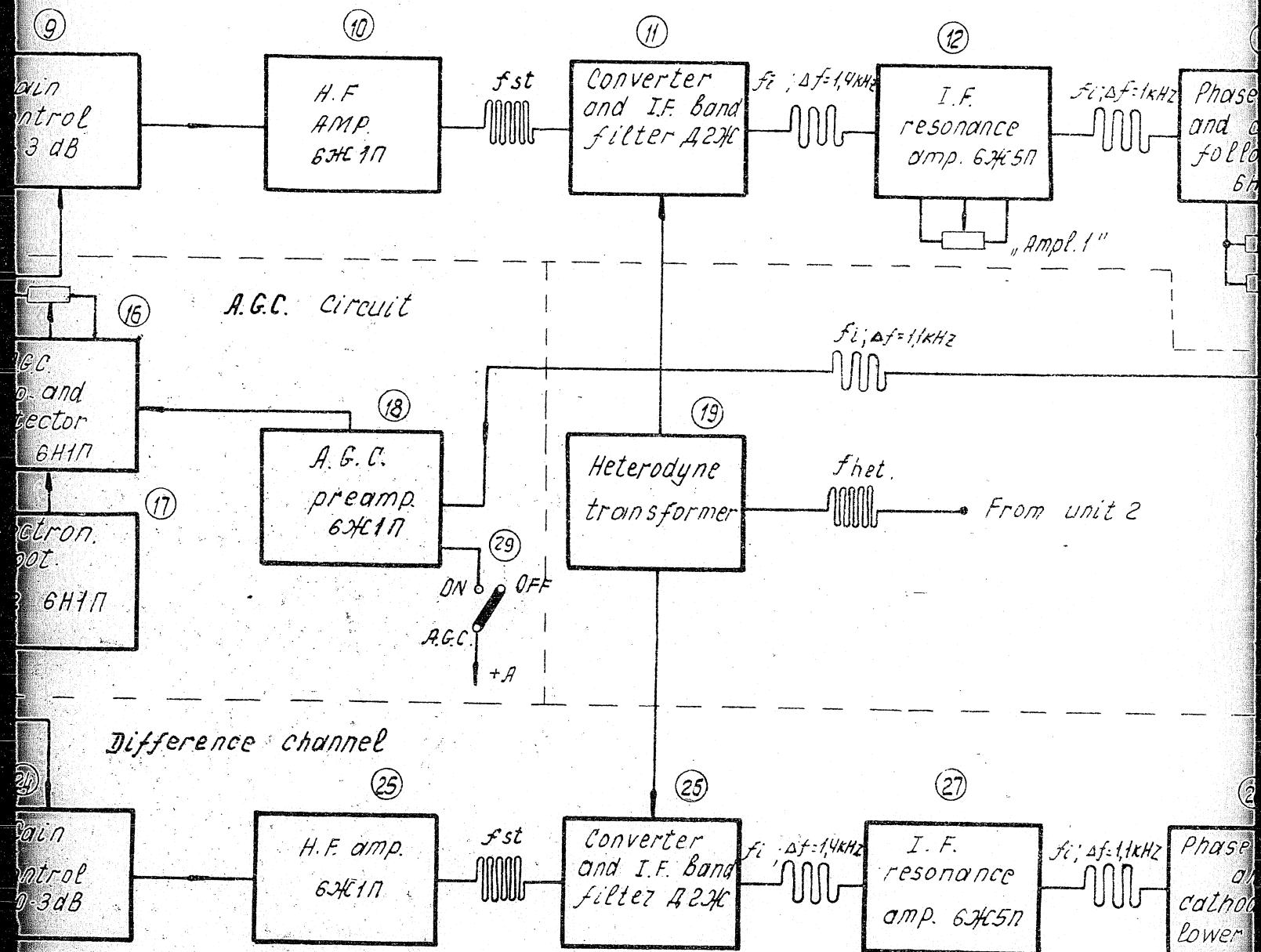
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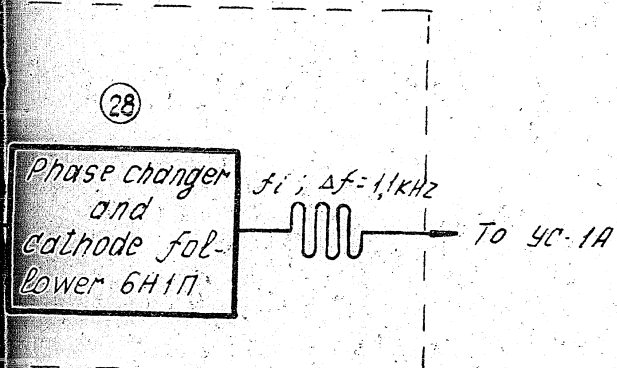
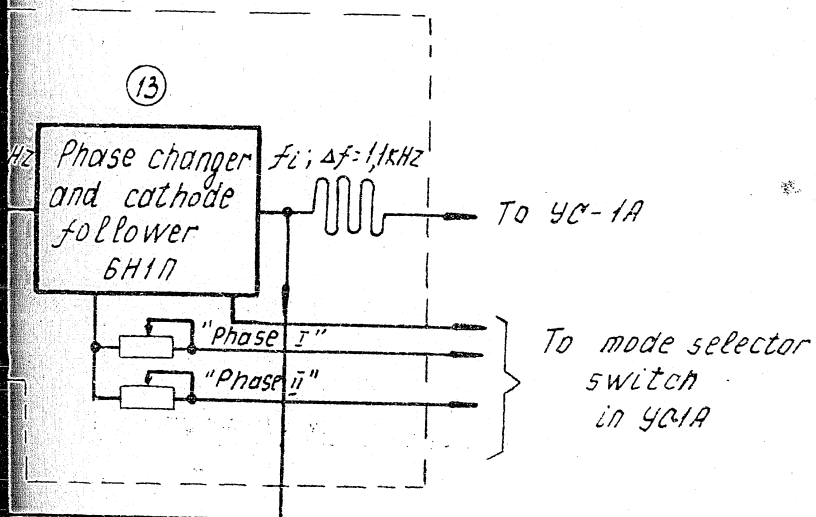
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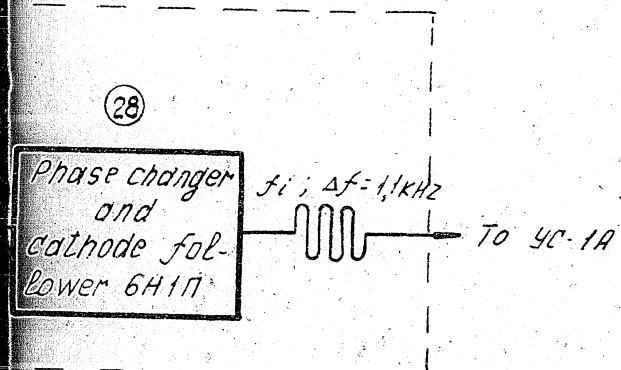
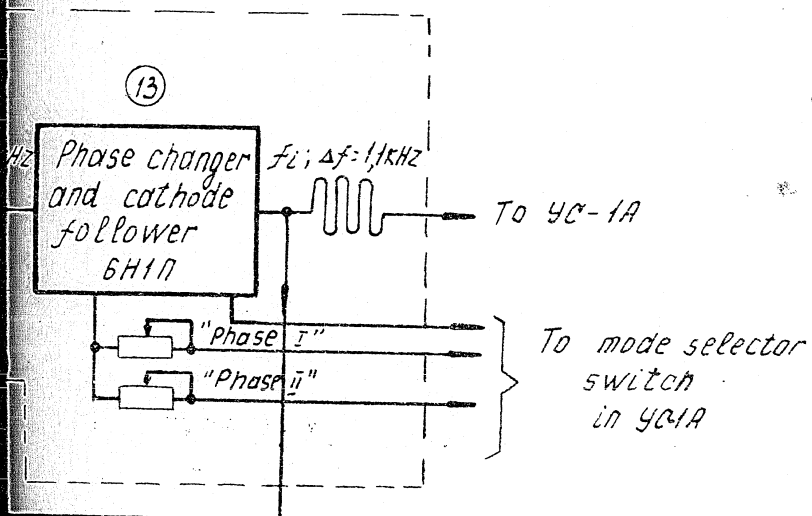
Sum channel







Sub-unit 4C1 Functional diagram	NY2.039.032C x ϕ	
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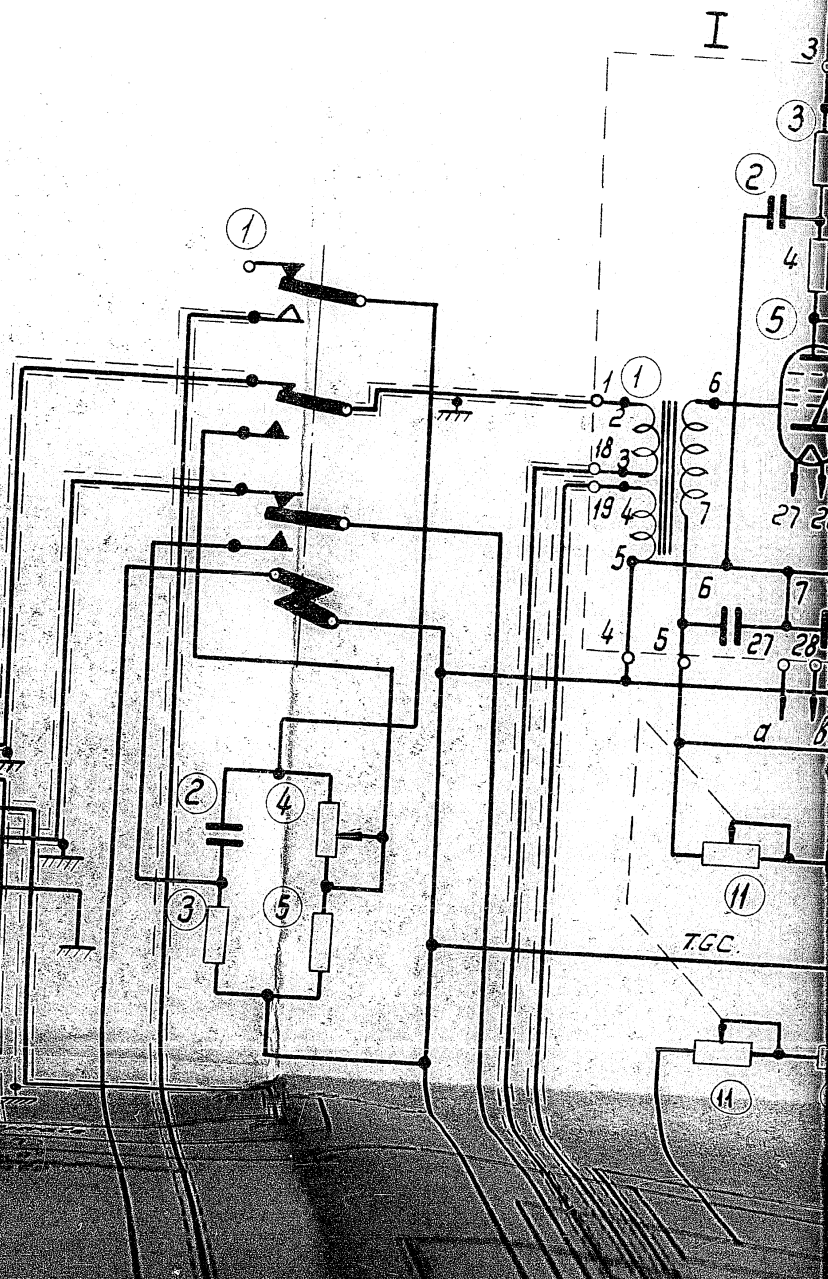
Sub-unit 4C1		NY2.039.032C x φ	
Functional Diagram		Sheet: 1	Sheets: 1

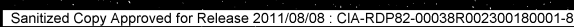
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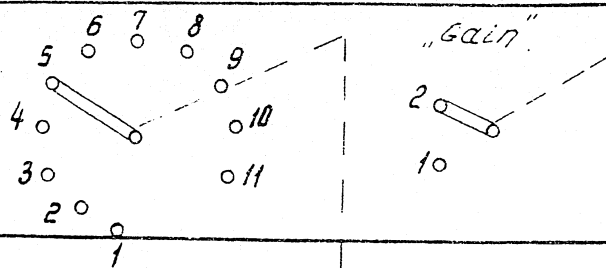
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(34)

Via	Leads to	Appl'n	No
Unit 4 20/2	Unit 13 17/5	Signal	1
" 20/1	" 17/6	"	2
" 20/4	" 17/7	"	3
" 20/3	" 17/8	"	4
			5
Unit 4 19/3	body		6

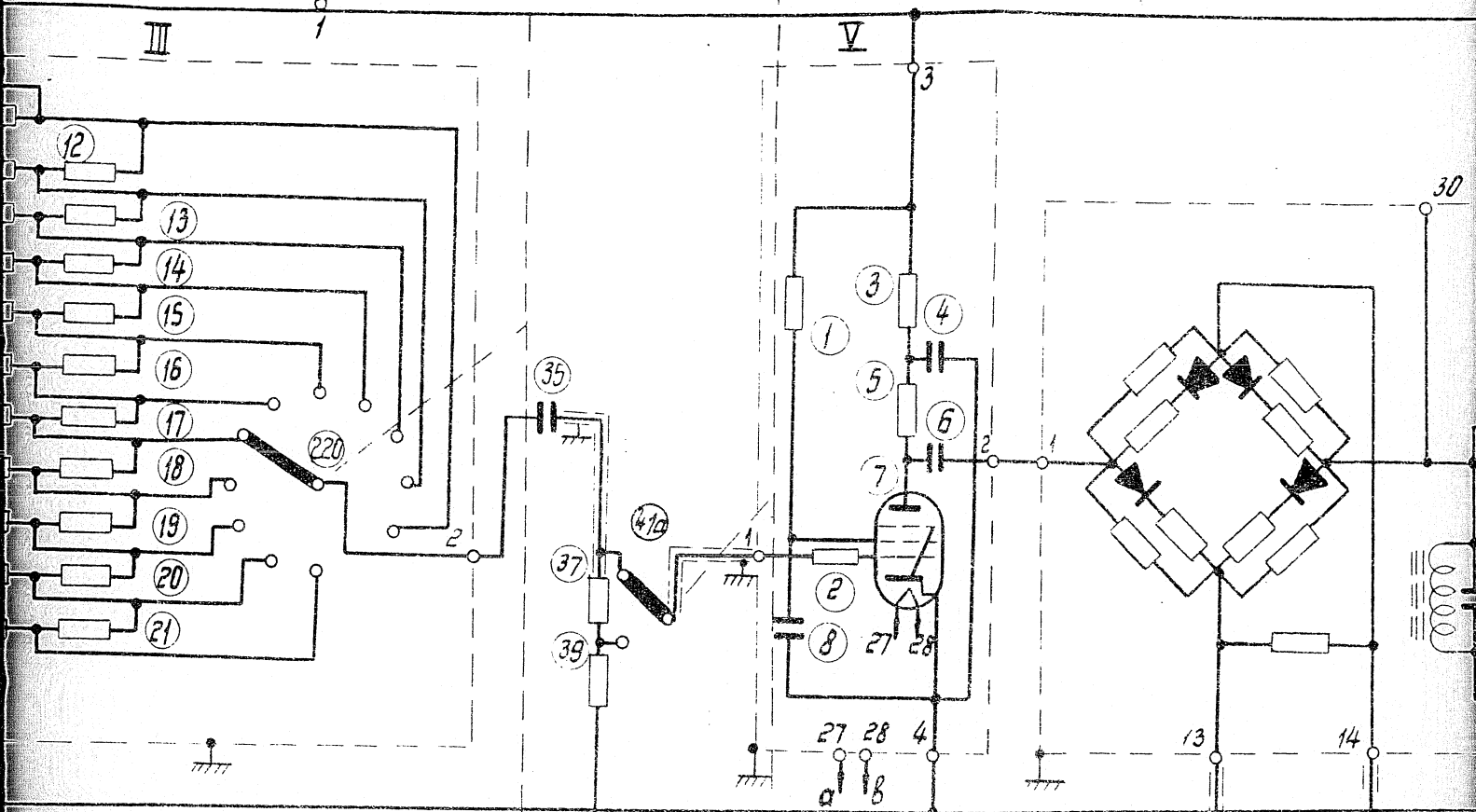




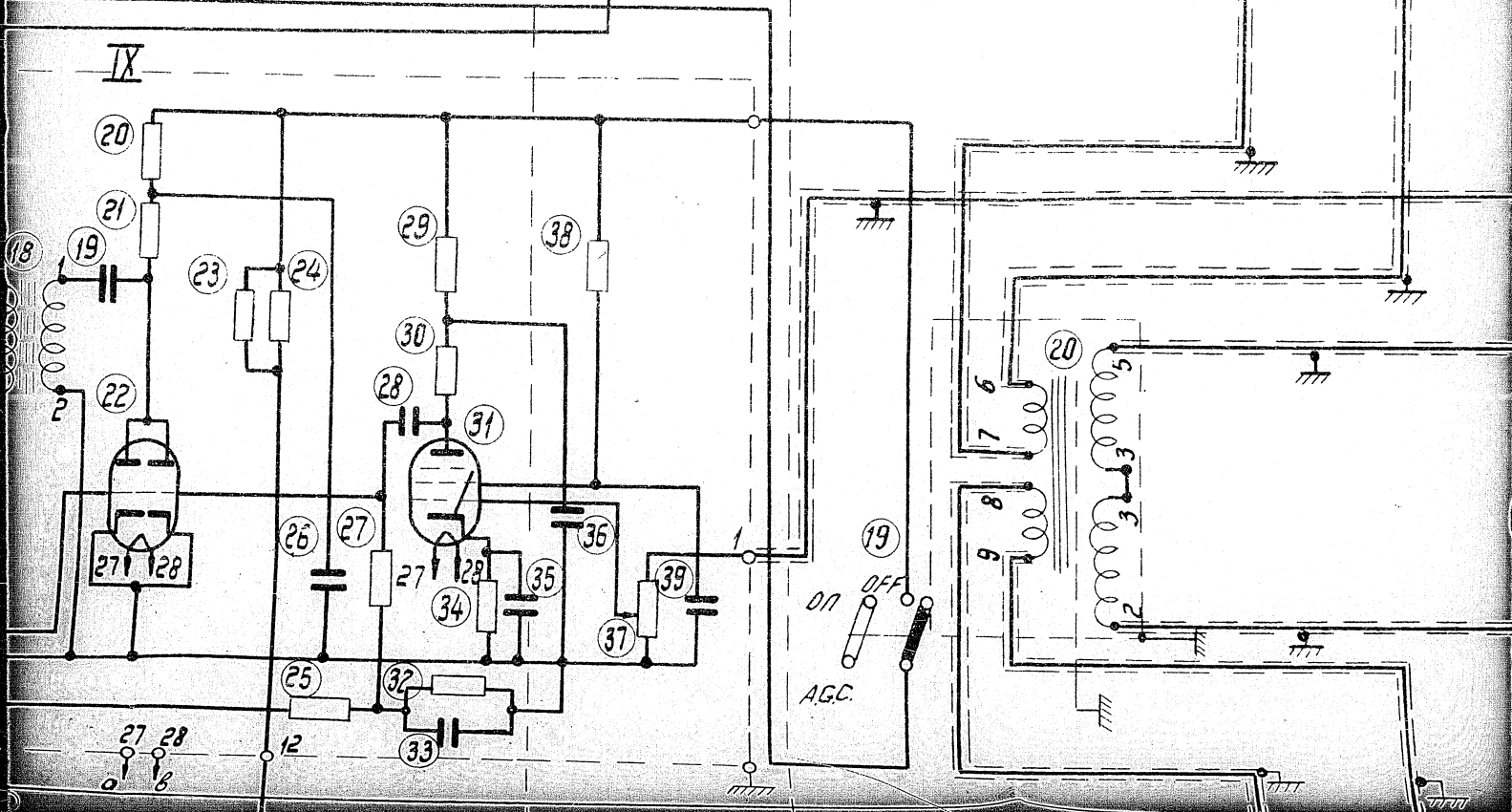


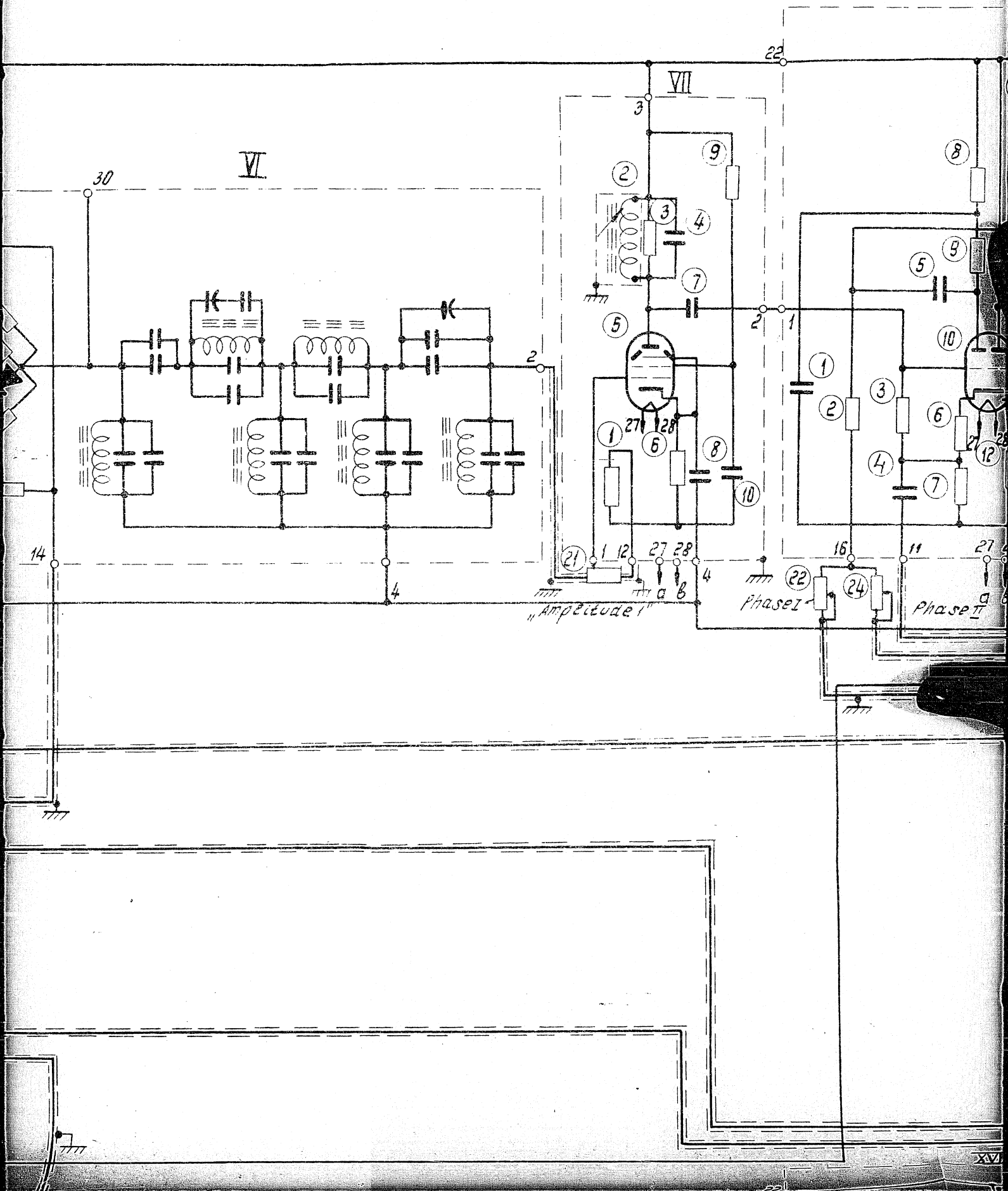
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V

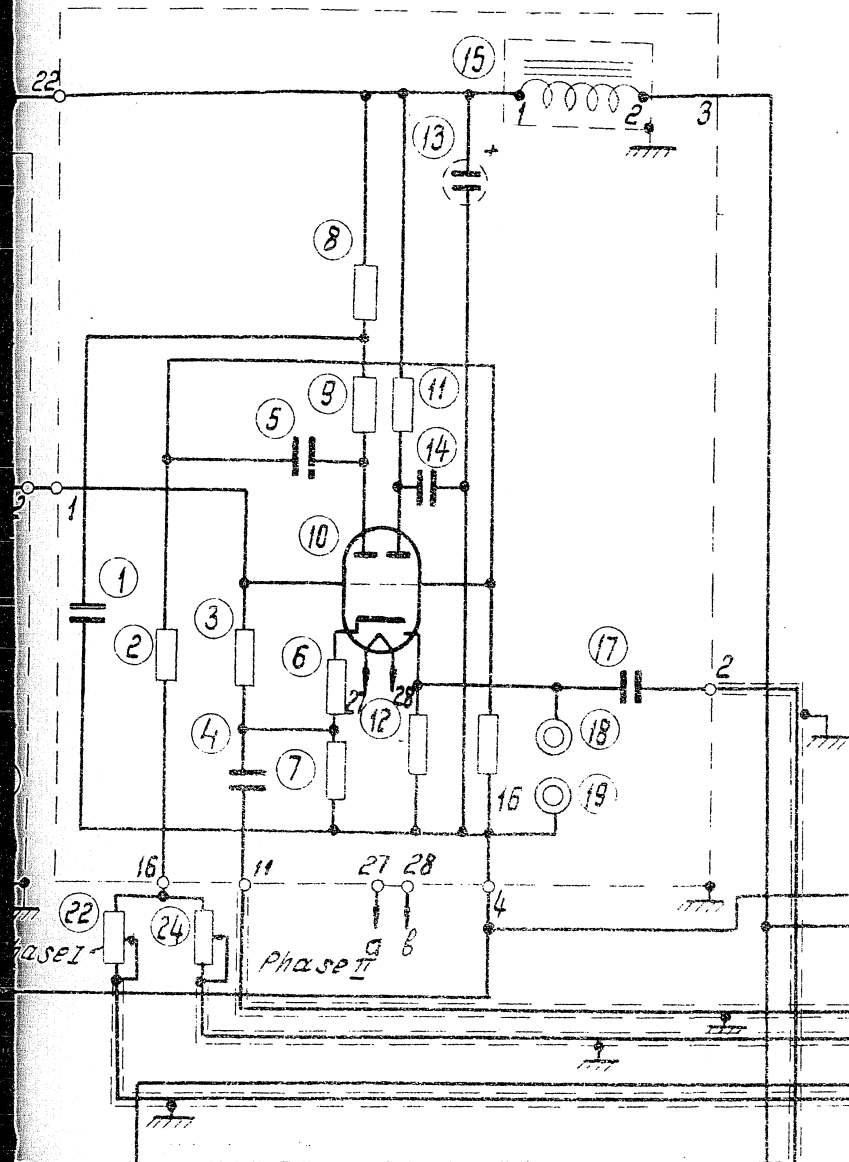


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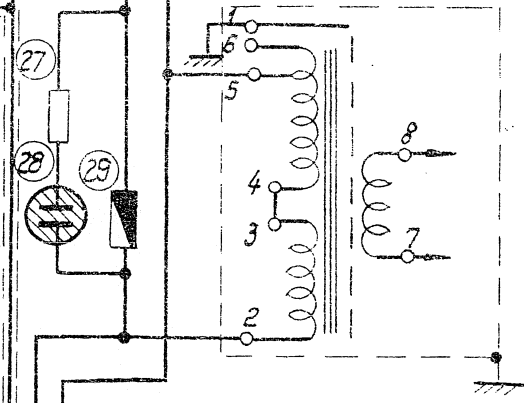
VIII



(32)

Nº	APP'N	Leads to	VIA
1	200V50Hz	Unit 4 2/4	Unit 4 1/1
2	"	" 2/5	" 1/2
3	"	Unit 4 ASU 871 69/4	Unit 4 12/8 12/11
4	+250V	" 69/5	Unit 4 11/10
5			
6	-105V	Unit 4 ASU 871 69/7	Unit 4 12/2
7	Signal	Unit 4 ASU 941A 17/6	
8	"	" 17/5	
9			
10		Unit 4 ASU 941A 17/3	

(30)

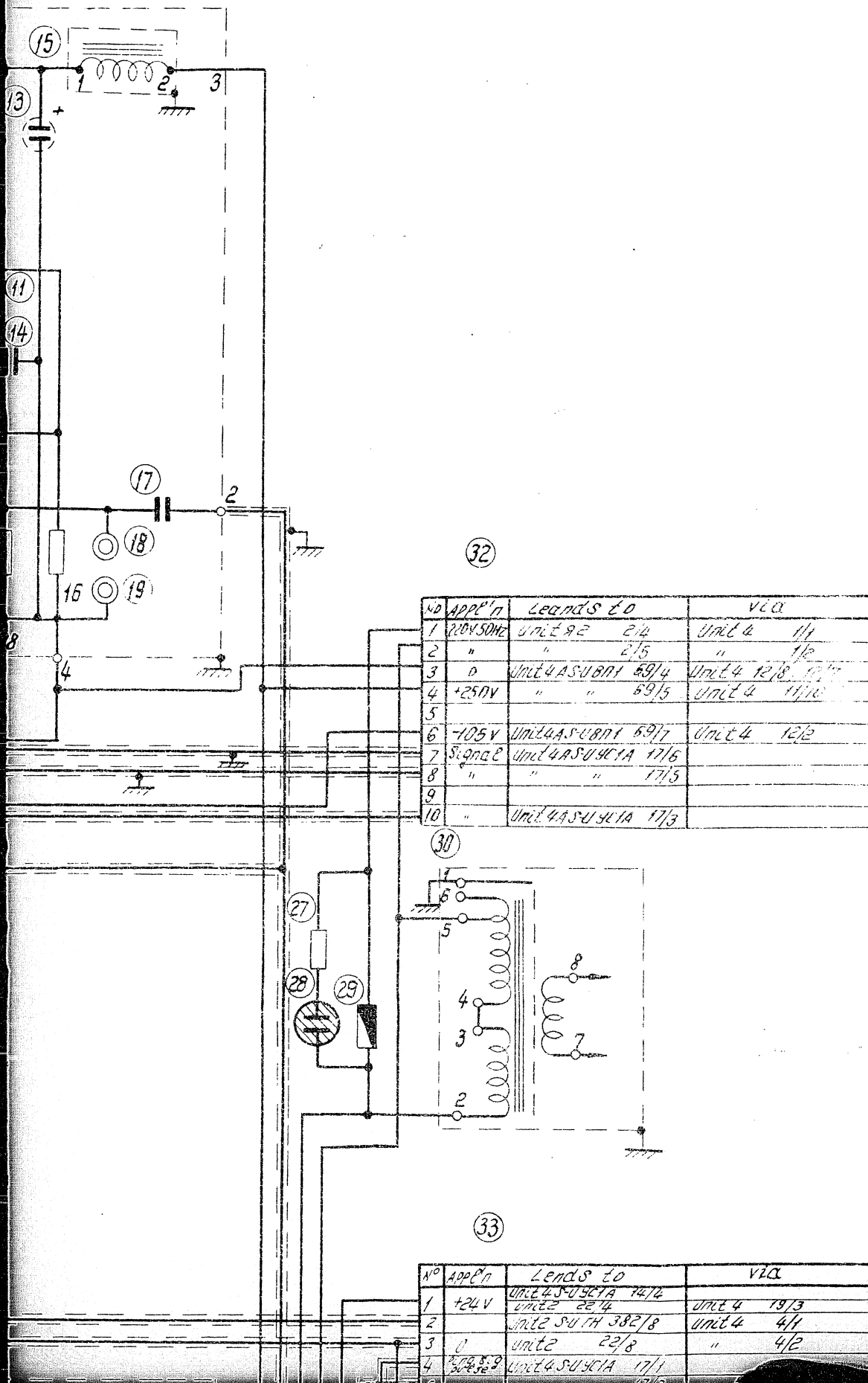


(33)

Nº	APP'N	Leads to	VIA
1	+24V	Unit 4 ASU 941A 17/3	Unit 4 12/8 12/11
2	"	" 17/5	" 11/10
3	"	" 17/6	" 12/2
4	"	" 17/7	" 12/1
5	"	" 17/8	" 12/12
6	"	" 17/9	" 12/13
7	"	" 17/10	" 12/14
8	"	" 17/11	" 12/15
9	"	" 17/12	" 12/16
10	"	" 17/13	" 12/17

XVII

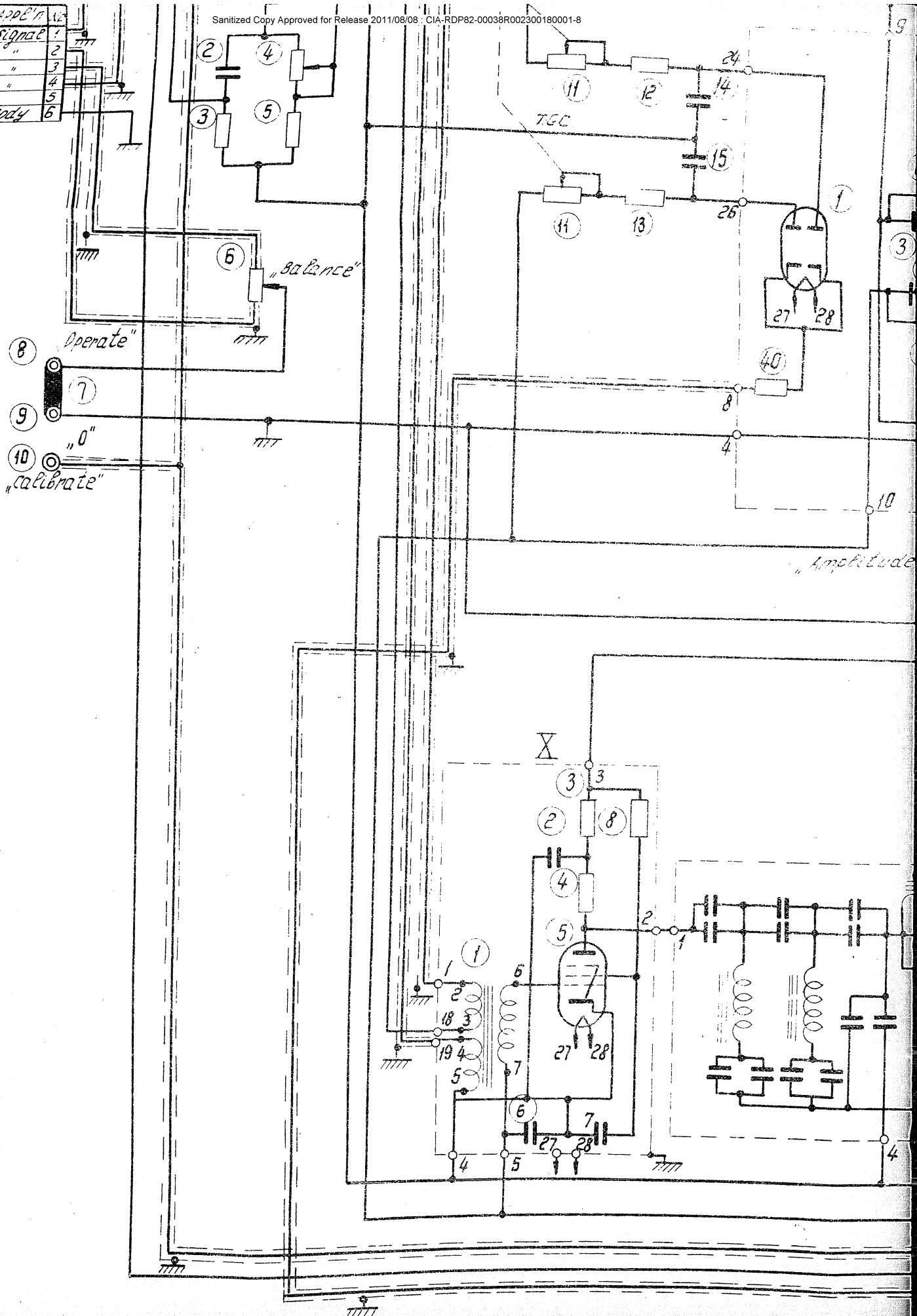
VIII

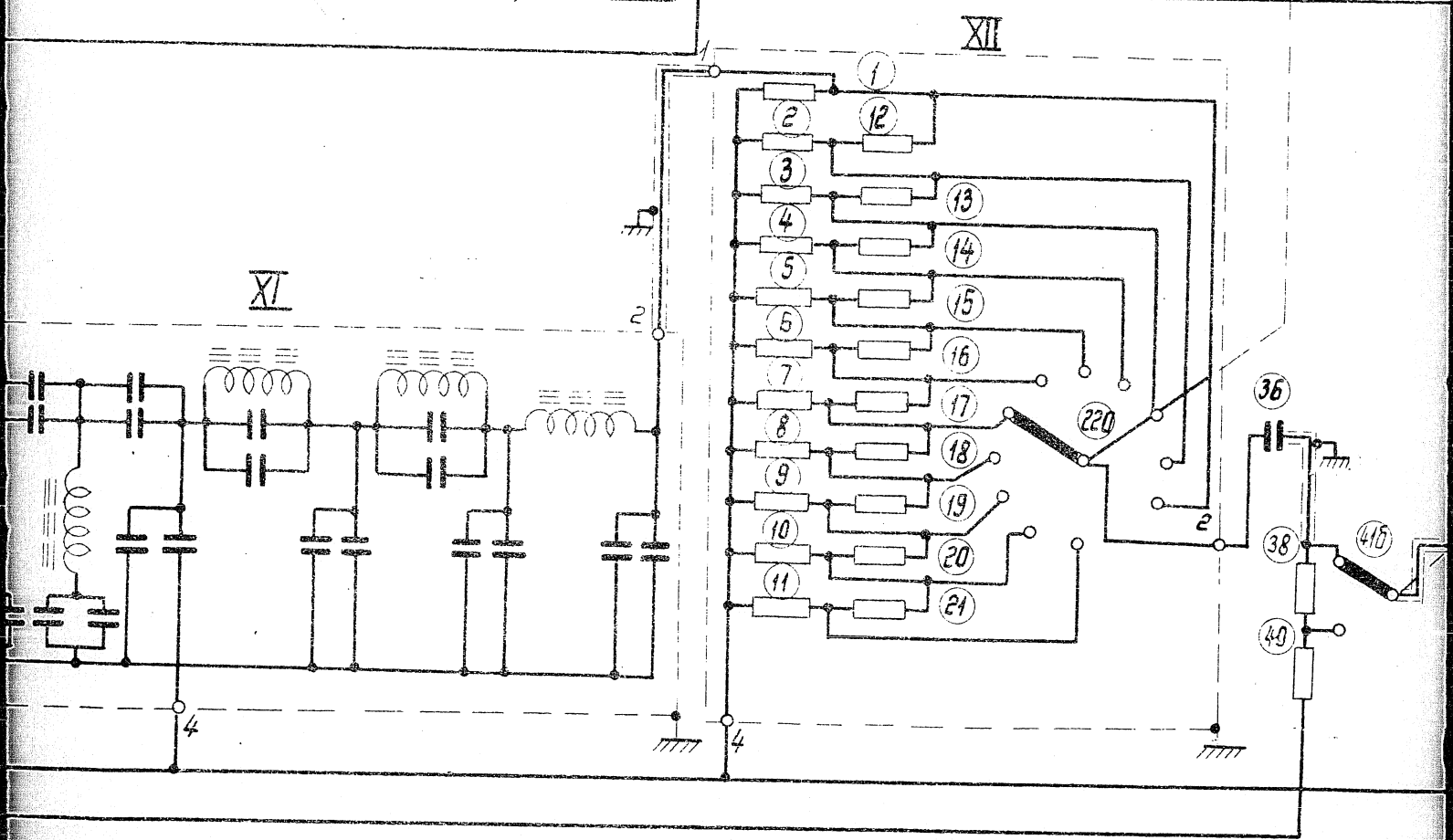
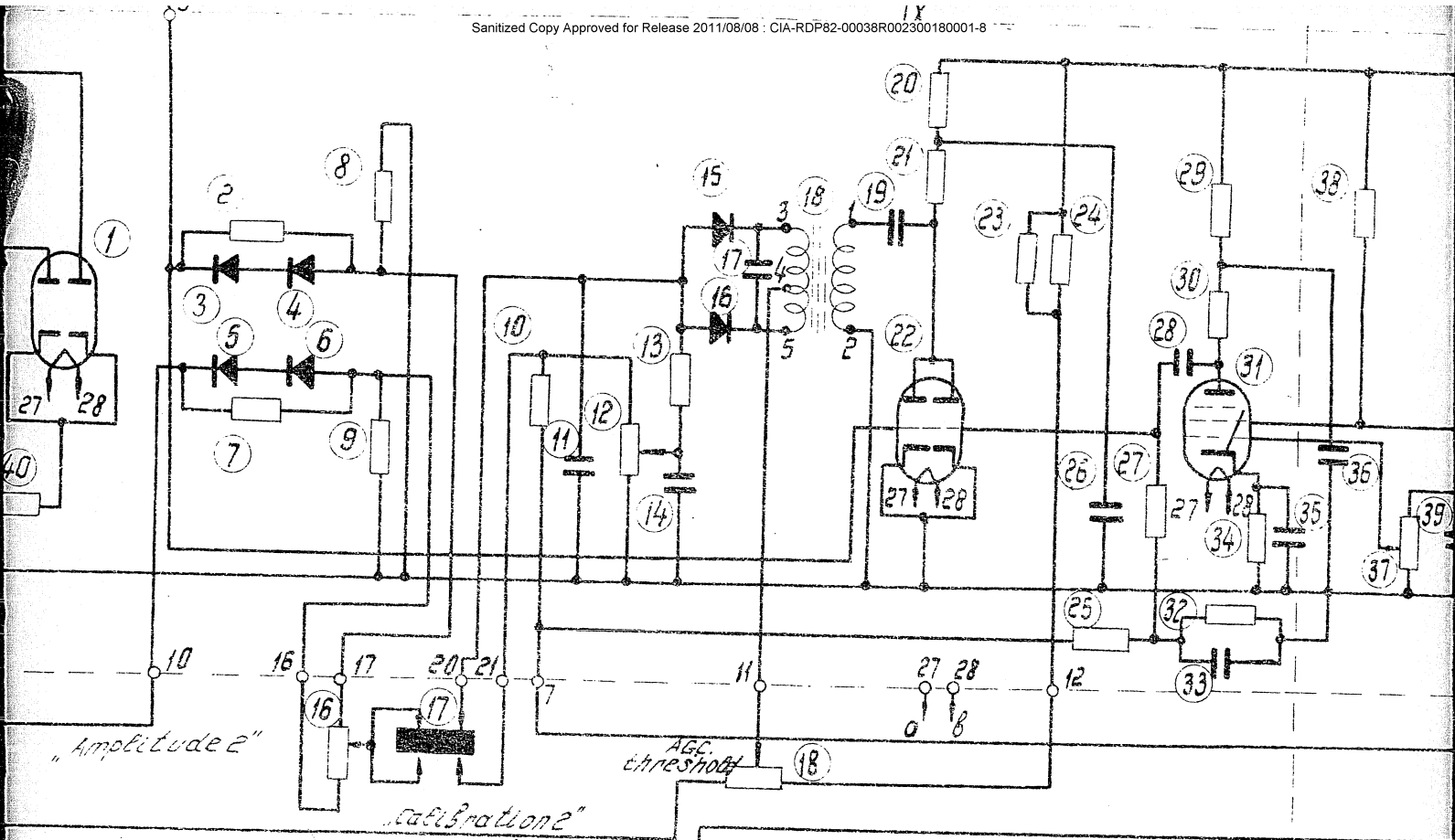


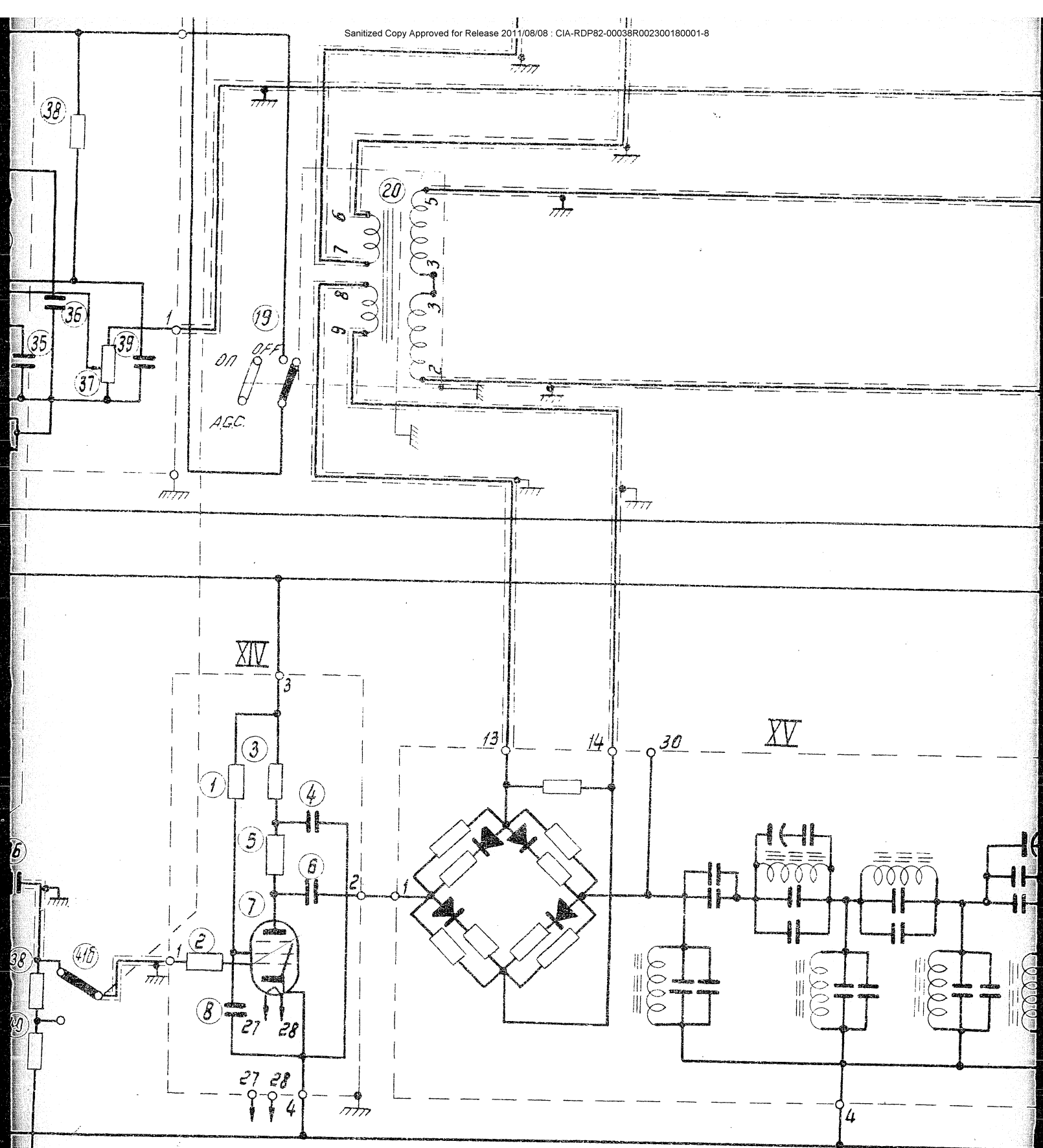
No	App'n	Leads to	Via
1	220V 50Hz	Unit 4 2/4	Unit 4 1/1
2	"	" 2/5	" 1/2
3	"	Unit 4 ASU 8/1 69/4	Unit 4 12/8 17/7
4	+250V	" " 69/5	Unit 4 17/10
5			
6	-105V	Unit 4 ASU 8/1 69/7	Unit 4 12/2
7	Signal	Unit 4 ASU 8/1 17/6	
8	"	" " 17/5	
9			
10	"	Unit 4 ASU 8/1 17/3	

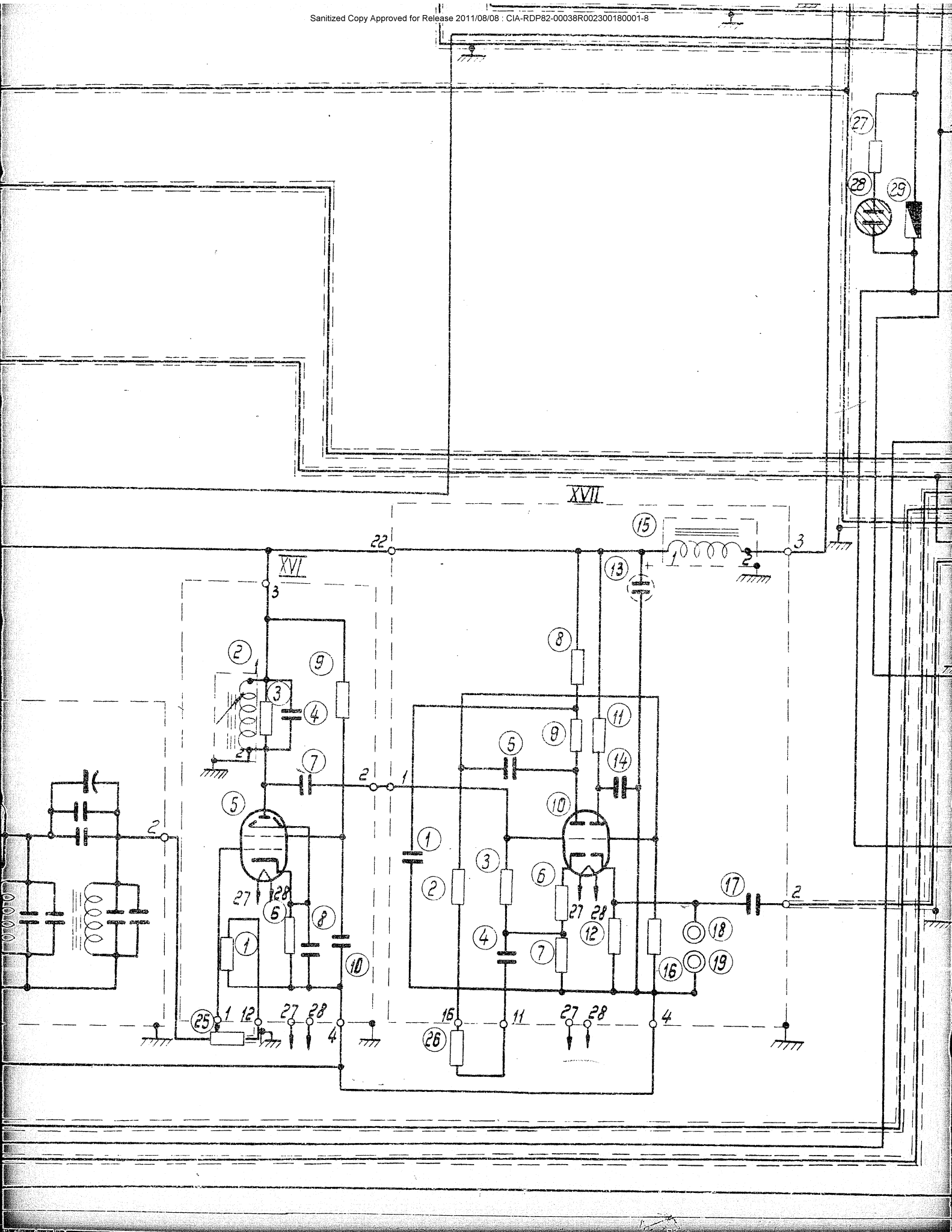
No	App'n	Leads to	Via
1	+24V	Unit 4 ASU 8/1 17/4	Unit 4 17/3
2		Unit 2 22/4	Unit 4 4/1
3	"	Unit 2 22/8	" 4/2
4	Signal	Unit 4 ASU 8/1 17/1	
5		" " 17/5	

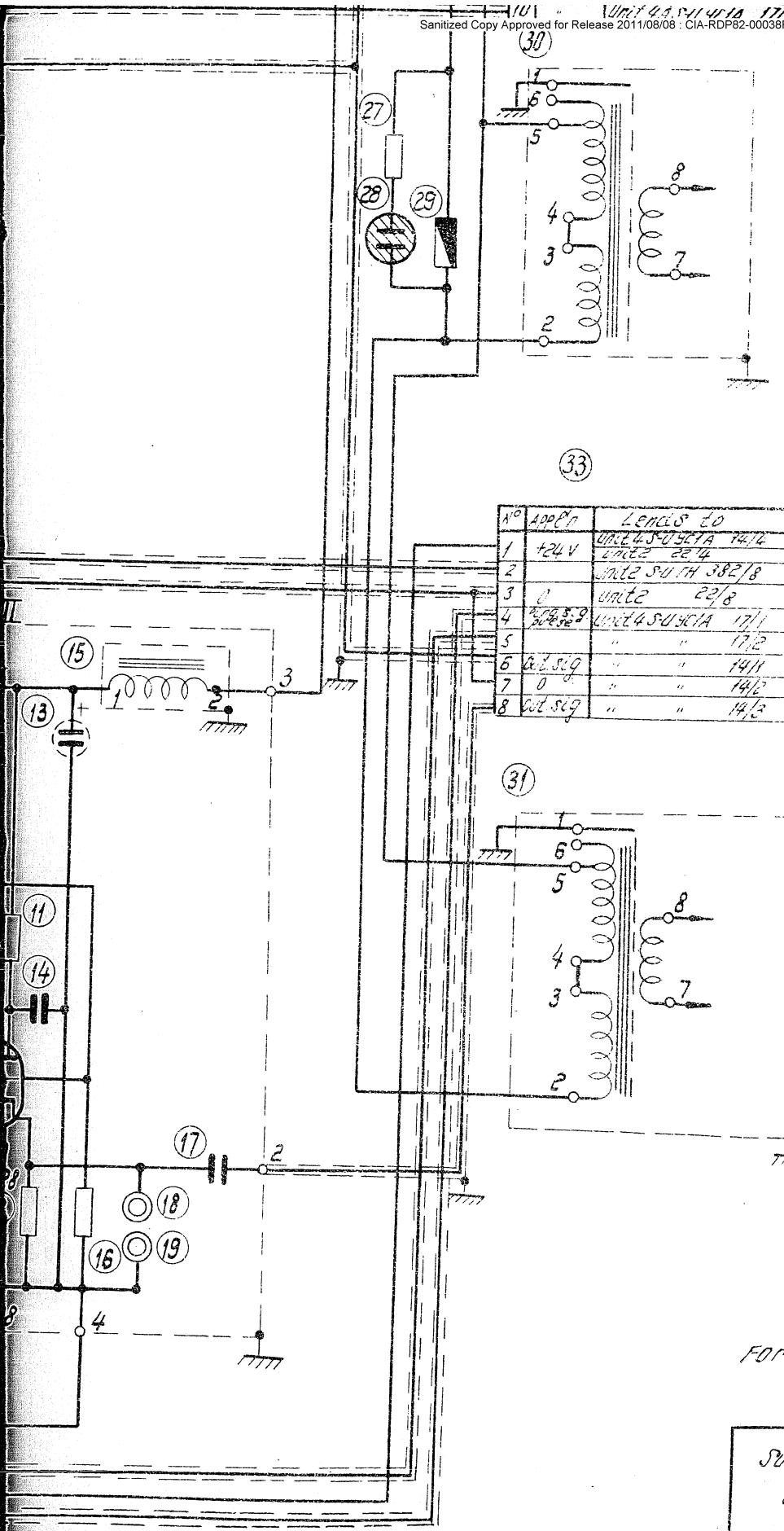
225	175	signal
13	176	"
	177	"
	178	"
4	13/3	body











Nº	App'n	Lens to	VIA
1	+24V	Unit 4 SU 4C1A 14/4	Unit 4 19/3
2		Unit 2 22/4	Unit 4 4/1
3		Unit 2 22/8	" 4/2
4		Unit 4 SU 4C1A 17/1	
5		" " 17/2	
6	22.5g	" " 14/1	
7	0	" " 14/2	
8	22.5g	" " 14/3	

For parts list, see 142.039.032A

sub-unit 4C1
circuit
diagram

142.039.032CX3

Sheet 1 Sheets 1

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remarks
1	AV2.039.050	Assembly I, X		2	
2	AV2.735.1880n	Transformer		1	
3	GOST 6418-59	Capacitor MKT-M-400-0.005±10%	0.05 mfd	1	
4	GOST 7113-66	Resistor MNT-0.5-7.5K±10%	7.5 kohms	1	
5	GOST 7113-66	Resistor MNT-0.5-3.2K±10%	3.2 kohms	1	
6		Tube 6BM8-22		1	
7	GOST 6418-59	Capacitor MKT-M-1000-1.0-10%	1 mfd	1	
8	GOST 6418-59	Capacitor MKT-M-400-0.005±10%	0.05 mfd	1	
9	GOST 7113-66	Resistor MNT-0.5-68K±10%	68 kohms	1	
10	AV2.039.050	Assembly II, XI		2	
11	AV2.801.000	Assembly III, XII		2	
12	GOST 7113-66	Resistor MNT-0.5-10K±5%	11 kohms	1	
13	GOST 7113-66	Resistor MNT-0.5-30K±5%	30 kohms	9	
14	GOST 7113-66	Resistor MNT-0.5-15K±5%	15 kohms	11	
15	B6.722.185	Rotary switch		1	
16	AV2.039.050	Assembly V, XIV		2	
17	GOST 7113-66	Resistor MNT-0.5-68K±10%	68 kohms	1	
18	GOST 7113-66	Resistor MNT-0.5-10K±10%	10 kohms	1	
19	GOST 7113-66	Resistor MNT-0.5-3.2K±10%	3.2 kohms	1	

Parts for one assembly

Parts for one assembly

Parts for one assembly

SUB-UNIT VC 1

Parts List

AV2.039.052 A

Sheet: 1 Sheets: 7

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
4	GOST 6118-59	Capacitor KEP-M-400-0,05 $\pm$ 10%	0.05 mfd	1	Parts for one assembly
5	GOST 7113-66	Resistor MHT-0,5-10K $\pm$ 10%	10 kohms	1	
6	GOST 11155-65	Capacitor CPM-1-100-F-0,01 $\pm$ 10%	0.01 mfd	1	
7		Tube 6X4E-85		1	
8	GOST 6118-59	Capacitor KEP-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
	LV2.039.024	Converter VI, XV		2	Parts for one assembly
	LV2.039.024	Assembly VII, XVI		2	
1	GOST 7113-66	Resistor MHT-0,5-1,8K $\pm$ 10%	1.8 kohms	1	
2	LV2.039.024	Variable inductor		1	
3	GOST 7113-66	Resistor MHT-0,5-43K $\pm$ 10%	43 kohms	1	
4	GOST 11155-65	Capacitor CPM-1-100-F-3900 $\pm$ 10%	3900 pF	1	
5		Tube 6X4E		1	
6	GOST 7113-66	Resistor MHT-0,5-130 $\pm$ 10%	130 ohms	1	
7	GOST 11155-65	Capacitor CPM-1-100-F-0,01 $\pm$ 10%	0.01 mfd	1	
8		Capacitor MFO-1-0,5-0,5-F	0.5 mfd	1	
9	GOST 7113-66	Resistor MHT-0,5-68K $\pm$ 10%	68 kohms	1	Parts for one assembly
10	GOST 6118-59	Capacitor KEP-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
	LV2.039.024	Assembly VIII, XVII		2	
1		Capacitor MFO-1-100-2,0-F	2.0 mfd	1	
2	GOST 7113-66	Resistor MHT-0,5-27K $\pm$ 10%	27 kohms	1	
3	GOST 7113-66	Resistor MHT-0,5-430K $\pm$ 10%	430 kohms	1	

LV2.039.024 II

Sheet: 2 Sheets: 7

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
4		Capacitor MBFO-1-300-2.0-F	2.0 mfd	1	Parts for one assembly
5	GOST 71155-65	Capacitor C12-1-250-F-10-5%	110 pF	1	
6	GOST 7113-66	Resistor MPT-0.5-200-10%	200 ohms	1	
7	GOST 7113-66	Resistor MPT-0.5-20-10%	2 kohms	1	
8	GOST 7113-66	Resistor MPT-0.5-1.1-10%	1.1 kohm	1	
9	GOST 7113-66	Resistor MPT-0.5-2-10%	2 kohms	1	
10		Tube 6BH6-AP		1	
11	GOST 7113-66	Resistor MPT-0.5-1.1-10%	1.1 kohm	1	
12	GOST 7113-66	Resistor MPT-0.5-2.4-10%	2.4 kohms	1	
13		Capacitor C12-3-300/20 M	20 mfd	1	
14		Capacitor MBFO-2-300-2.0-F	2.0 mfd	1	
15	JW4.750.7670n	Choke 4p 1212	E-type core 12x12	1	
16	GOST 7113-66	Resistor MPT-0.5-430-10%	430 kohms	1	
17	GOST 6118-59	Capacitor NST-4-200-0.02-10%	0.02 mfd	1	
18-19	B6.729.002	Jack		2	
	AV2.039.053	Assembly IX		1	
1		Tube 6X2H-B3		1	
2	GOST 7113-66	Resistor MPT-0.5-300-10%	300 kohms	1	

AV2.039.032 A

Sheet: 3 Sheets: 7

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
6		Diode 1 226		4	
7	GOST 7113-66	Resistor MHT-0,5-300K $\pm$ 10%	300 kohms	1	
8-9	GOST 7113-66	Resistor MHT-0,5-51K $\pm$ 10%	51 kohms	2	
10	GOST 7113-66	Resistor MHT-0,5-43K $\pm$ 10%	43 kohms	1	
11	GOST 6118-59	Capacitor KBT-M-200-0,1 $\pm$ 10%	0.1 mfd	1	
12		Resistor CHO-2-4,7K-OC-3-20 $\pm$ 20%	4.7 kohms	1	
13	GOST 7113-66	Resistor MHT-0,5-30K $\pm$ 10%	30 kohms	1	
14		Capacitor MBHO-1-500-0,5-n	0.5 mfd	1	
15-16		Diode 1 207		2	
17	GOST 11155-65	Capacitor CFM-3-500-F-3900 $\pm$ 10%	3900 pF	1	
18	ИД4.235.1290n	Transformer		1	
19	GOST 11155-65	Capacitor CFM-4-250-F-0,01 $\pm$ 10%	0.01 mfd	1	
20	GOST 7113-66	Resistor MHT-0,5-9,1K $\pm$ 10%	9.1 kohms	1	
21	GOST 7113-66	Resistor MHT-0,5-15K $\pm$ 10%	15 kohms	1	
22		Tube 6H1B-BB		1	
23-24	GOST 7113-66	Resistor MHT-2-47K $\pm$ 10%	47 kohms	2	
25	GOST 7113-66	Resistor MHT-0,5-150K $\pm$ 10%	150 kohms	1	
26	GOST 6118-59	Capacitor KBT-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
27	GOST 7113-66	Resistor MHT-0,5-430K $\pm$ 10%	430 kohms	1	

ИД2.039.032 II

Sheet: 4 Sheets: 7

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
28	00ST 11155-65	Capacitor CPM-4-250-P-0,01±10%	0.01 mfd	1	
29	00ST 7113-66	Resistor MHT-0,5-7,5K±10%	7.5 kohms	1	
30	00ST 7113-66	Resistor MHT-0,5-8,2K±10%	8.2 kohms	1	
31		Tube 6X4-RE		1	
32	00ST 7113-66	Resistor MHT-0,5-3,9K±10%	3.9 kohms	1	
33		Capacitor MBFO-1-500-0,5-11	0.5 mfd	1	
34	00ST 7113-66	Resistor MHT-0,5-300±10%	300 ohms	1	
35	00ST 6118-59	Capacitor KPT-M-200-0,1±10%	0.1 mfd	1	
36	00ST 6118-59	Capacitor KLP-M-400-0,05±10%	0.05 mfd	1	
37		Resistor GHO-2-47K±20% OG-3-20	47 kohms	1	
38	00ST 7113-66	Resistor MHT-0,5-100K±10%	100 kohms	1	
39	00ST 6118-59	Capacitor KPT-M-400-0,05±10%	0.05 mfd	1	
40	00ST 7113-66	Resistor MHT-1-620±10%	620 ohms	1	
		Common Components			
1	PC4.523.6230a	Relay RMH		1	
2	00ST 11155-65	Capacitor CPM-1-250-P-510±5%	510 pF	1	
3	36.752.011	Resistor, wire-wound	10 ohms	1	
4		Resistor GHO-2-22K±20% OG-3-20	22 kohms	1	
5	36.752.011	Resistor, wire-wound	10 ohms	1	
IV2.039.032 A					
Sheet: 5 Sheets: 7					

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	Qo.	Remark
6	86.731.002	Potentiometer 200 ohms $\pm 10\%$ 3 W	200 ohms	1	
7	78.501.042	Jumper		1	
8-10	17-531.006	Test jack		3	
11	608T 5574-66	Resistor CHQ-1Y $0.5-4-470K \pm 30\%$ $1-4-470K \pm 30\%$	470 kohms	1	
12-13	608T 7113-66	Resistor MNT-0.5-1K $\pm 10\%$	1 kohm	2	
4-15		Capacitor MSPQ-2-150-4-H	4 mfd	2	
16		Resistor CHQ-1Y 47K $\pm 20\%$ CC-3-20	47 kohms	1	
17	1.06510-010	Push-button B651410 30		1	
18		Resistor CHQ-1Y 2.2K $\pm 20\%$ CC-3-20	2.2 kohms	1	
19		Toggle switch TB2-1		1	
20	774.735.12.0H	Transformer		1	
21		Resistor CHQ-1Y 8.2K $\pm 20\%$ CC-3-20	8.2 kohms	1	
22, 24		Resistor CHQ-1Y 47K $\pm 20\%$ CC-3-20	47 kohms	2	
25		Resistor CHQ-1Y 8.2K $\pm 20\%$ CC-3-20	8.2 kohms	1	
26	608T 7113-66	Resistor MNT-0.5-350K $\pm 10\%$	360 kohms	1	
27	608T 7113-66	Resistor MNT-2-20K $\pm 10\%$	20 kohms	1	
28		Lamp MH-3		1	
29	608T 5010-53	Fuse HK-45-2	2 A	1	
30-31	774.700.0050H	Transformer 2p 1632		2	
32		Terminal block H04-10	10-term	1	

772.039.032 H

Sheet: 6 Sheets: 7

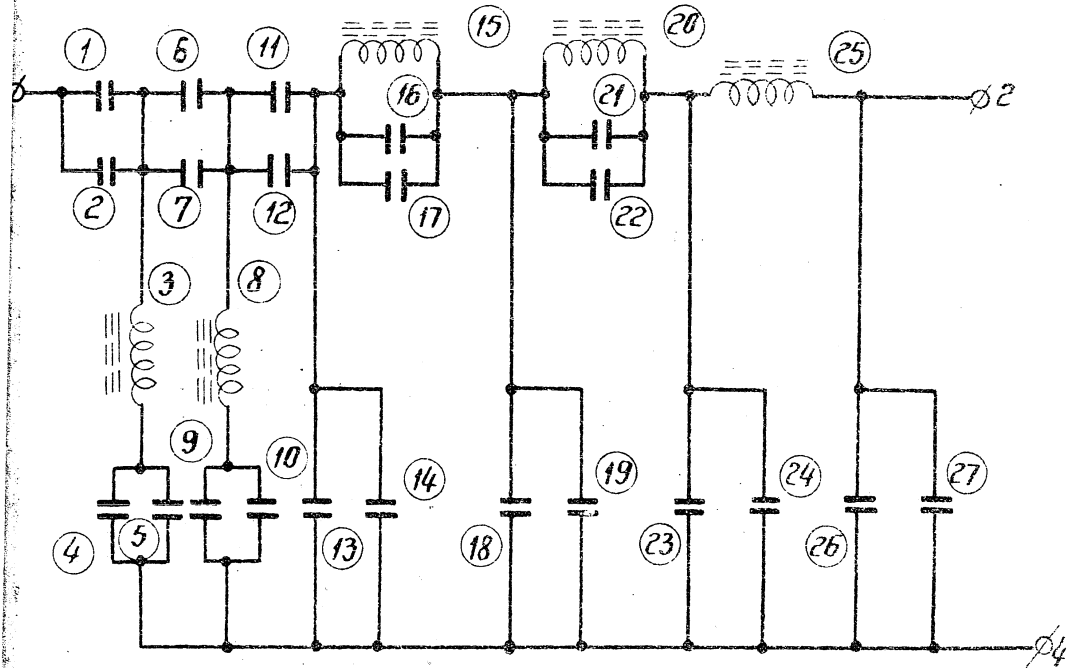
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33		Terminal block H04-5	8-term.	1	
34		Terminal block H04-6	6-term.	1	
5-36	GOST 11155-65	Capacitor GPM-1-150-P-C, 0.01 10%	0.01 mfd	2	
7-38	GOST 7113-66	Resistor MPT-0.5-82K 5%	33 kohms	2	
9-40	GOST 7113-66	Resistor MPT-0.5-82K 5%	82 kohms	2	
41		Switch 2R 4H-1		1	

JV2.039.032 A

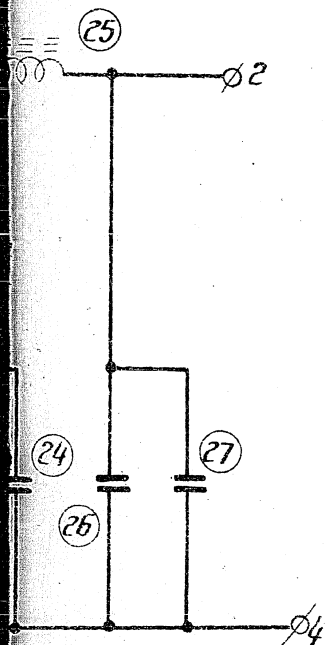
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27	0400



Item No.	Standard Spec. No. d'wg. No.	Name, type	Value	No.	Remarks
1	04H046100374	Capacitor C1M-3-500-F-1500-I	1500 PF	1	Tolerance
2	04H046100374	Capacitor C1M-3-500-F-1500-I	1500 PF	1	1822PF $\pm 2\%$
3	142062.214	Inductor 84-32 44x075 1ring	1350 PF	1	
4	"	Capacitor C1M-2-250-F-1000-I	1000 PF	1	116KHZ $\pm$
5	"	Capacitor C1M-2-250-F-330-I	330 PF	1	
6	04H046100374	Capacitor C1M-1-250-F-560-I	560 PF	1	Tolerance
7	04H046100374	Capacitor C1M-1-250-F-560-I	560 PF	1	1119PF $\pm 2\%$
8	"	Inductor 84-32 44x075 1ring	1350 PF	1	
9	142062.215	Capacitor C1M-2-250-F-1100-I	1100 PF	1	104KHZ $\pm$
10	"	Capacitor C1M-2-250-F-1100-I	1100 PF	1	
11	04H046100374	Capacitor C1M-2-250-F-1100-I	1100 PF	1	Tolerance
12	04H046100374	Capacitor C1M-2-250-F-1000-I	1000 PF	1	2085PF $\pm 2\%$
13	04H046100374	Capacitor C1M-2-250-F-120-I	120 PF	1	Tolerance
14	04H046100374	Capacitor C1M-2-250-F-120-I	120 PF	1	243PF $\pm 2\%$
15	"	Inductor 84-32 44x075 1ring	1350 PF	1	
16	142062.210	Capacitor C1M-1-250-F-200-I	200 PF	1	30KHZ $\pm$
17	"	Capacitor C1M-1-250-F-300-I	300 PF	1	
18	04H046100374	Capacitor C1M-1-250-F-240-I	240 PF	1	Tolerance
19	04H046100374	Capacitor C1M-1-250-F-240-I	240 PF	1	488PF $\pm 2\%$
20	"	Inductor 84-32 44x075 1ring	1350 PF	1	
21	142062.210	Capacitor C1M-1-250-F-200-I	200 PF	1	30KHZ $\pm$
22	"	Capacitor C1M-1-250-F-300-I	300 PF	1	
23	04H046100374	Capacitor C1M-1-250-F-330-I	330 PF	1	Tolerance
24	04H046100374	Capacitor C1M-1-250-F-330-I	330 PF	1	651PF $\pm 2\%$
25	144777.027	Inductor 84-32 44x075 1ring	1350 PF	1	
26	04H046100374	Capacitor C1M-1-250-F-200-I	200 PF	1	Tolerance
27	04H046100374	Capacitor C1M-1-250-F-200-I	200 PF	1	408PF $\pm 2\%$

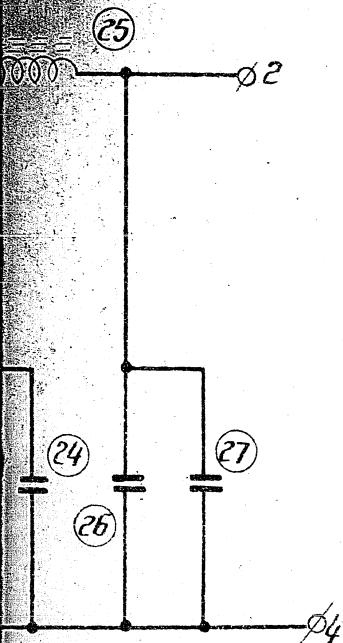
Filter
circuit
diagram

142067.058 CXJ

Sheet 1

Sheet 1

Item No.	Standard Spec. No. & Wg. No.	Name, type	Value	No.	Remark
1	04046100374	Capacitor C1H-3-500-F-1300-I	1300 PF	1	1022PF capacitance
2	04046100374	Capacitor C1H-3-500-F-1500-I	1500 PF	1	1822PF±2%
3	142062214	Inductor 84-32 44x0.75 1 ring	2350ES 425dca	1	
4	"	Capacitor C1H-2-250-F-1000-I	1000 PF	1	116KHZ±
5	"	Capacitor C1H-2-250-F-330-I	330 PF	1	
6	04046100374	Capacitor C1H-1-250-F-550-I	550 PF	1	1022PF capacitance
7	04046100374	Capacitor C1H-1-250-F-550-I	550 PF	1	119PF±2%
8		Inductor 84-32 44x0.75 1 ring	2022ES 425dca	1	
9	142062215	Capacitor C1H-2-250-F-1100-I	1100 PF	1	104KHZ±
10		Capacitor C1H-2-250-F-1100-I	1100 PF	1	
11	04046100374	Capacitor C1H-2-250-F-1100-I	1100 PF	1	1022PF capacitance
12	04046100374	Capacitor C1H-2-250-F-1000-I	1000 PF	1	2085PF±2%
13	04046100374	Capacitor C1H-2-250-F-120-I	120 PF	1	1022PF capacitance
14	04046100374	Capacitor C1H-2-250-F-120-I	120 PF	1	243PF±2%
15		Inductor 84-32 44x0.75 1 ring	1380ES 435dca	1	
16	142062210	Capacitor C1H-1-250-F-200-I	200 PF	1	30KHZ±
17		Capacitor C1H-1-250-F-300-I	300 PF	1	
18	04046100374	Capacitor C1H-1-250-F-240-I	240 PF	1	1022PF capacitance
19	04046100374	Capacitor C1H-1-250-F-240-I	240 PF	1	486PF±2%
20		Inductor 84-32 44x0.75 1 ring	1380ES 435dca	1	
21	142062210	Capacitor C1H-1-250-F-200-I	200 PF	1	30KHZ±
22		Capacitor C1H-1-250-F-300-I	300 PF	1	
23	04046100374	Capacitor C1H-1-250-F-330-I	330 PF	1	1022PF capacitance
24	04046100374	Capacitor C1H-1-250-F-330-I	330 PF	1	651PF±2%
25	144777027	Inductor 84-32 44x0.75 1 ring	1810ES 425dca	1	
26	04046100374	Capacitor C1H-1-250-F-200-I	200 PF	1	1022PF capacitance
27	04046100374	Capacitor C1H-1-250-F-200-I	200 PF	1	408PF±2%



Filter
circuit
diagram

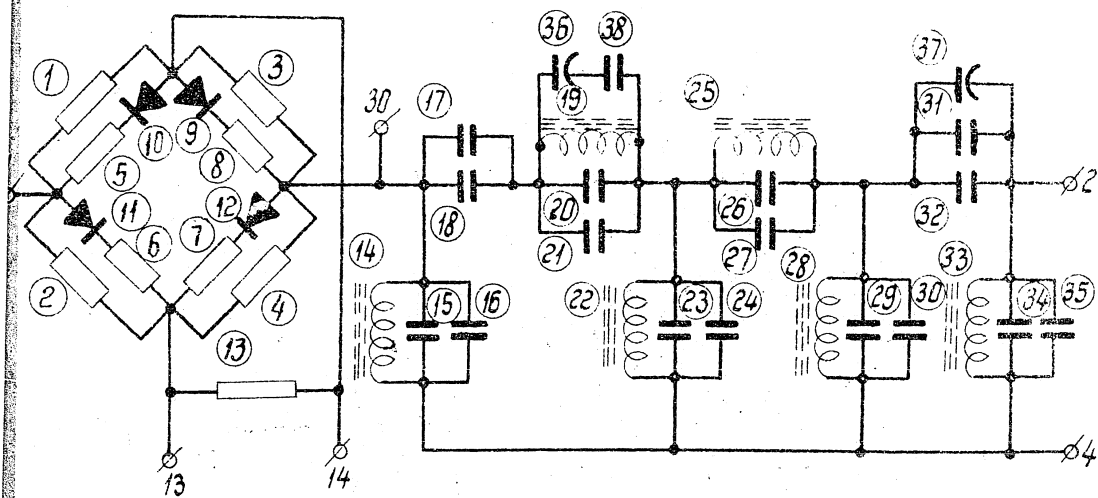
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Sheet: 1

Sheet: 1

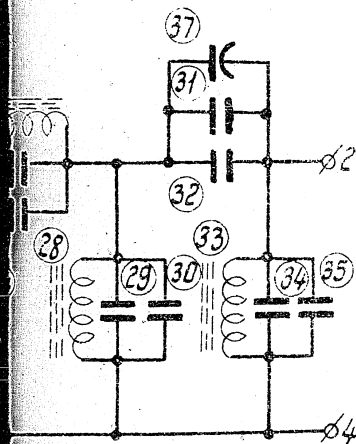
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Item No	Standard Spec. or Swg. No
1-4	QJKA 467.003
5-8	QJKA 467.003
9,12	874.06.690-5
13	QJKA 467.003
14	
15,16	NY2.062.20
17,18	QJKA 461.003
19	
20	NY2.062.20
21	
22	
23,24	NY2.062.20
25	
26,27	NY2.062.20
28	
29	NY2.062.20
30	
31	QJKA 461.003
32	QJKA 461.003
33	NY2.062.20
34,35	
36,37	QJKA 460.008
38	QJKA 461.003

Item No	Standard Spec or dwg. No.	Name, type	Value	No	Remark
1-4	02X0.467.003TY	Resistor MAT-05-36K $\pm$ 5%	36K	4	
5-8	02X0.467.003TY	Resistor MAT-05-12K $\pm$ 10%	12K	4	
9,12	6TY.06.690-56	Diode 1L23K		4	
13	02X0.467.003TY	Resistor MAT-05-470 ohms $\pm$ 10%	470 ohms	1	
14		Inductor T4-60 44x0.75 1 ring	640 μ ts 0.55 μ ia	1	11.2KHZ
15,16	1142.062.209	Capacitor CRM-4-500-F-4700-I	4700 pF	2	
17,18	02X0.461.003TY	Capacitor CRM-1-250-F-240-I	240 pF	2	tot. cap. 480 pF $\pm$ 2%
19		Inductor T4-60 44x0.75 1 ring	1210 μ ts 0.35 μ ia	1	
20	1142.062.212	Capacitor CRM-2-250-F-1000-I	1000 pF	1	12.5KHZ
21		Capacitor CRM-2-250-F-910-I	910 pF	1	
22		Inductor T4-60 44x0.75 1 ring	500 μ ts 0.64 μ ia	1	
23,24	1142.062.208	Capacitor CRM-4-250-F-7500-I	7500 pF	2	11.45KHZ
25		Inductor T4-60 44x0.75 1 ring	910 μ ts 0.44 μ ia	1	
26,27	1142.062.213	Capacitor CRM-3-500-F-3300-I	3300 pF	2	9.5KHZ
28		Inductor T4-60 44x0.75 1 ring	500 μ ts 0.64 μ ia	1	
29	1142.062.207	Capacitor CRM-4-250-F-8200-I	8200 pF	1	11.8KHZ
30		Capacitor CRM-4-250-F-5600-I	5600 pF	1	
31	02X0.461.003TY	Capacitor CRM-2-250-F-750-I	750 pF	1	tot. cap. 1450 pF $\pm$ 2%
32	02X0.461.003TY	Capacitor CRM-2-250-F-680-I	680 pF	1	
33		Inductor T4-60 44x0.75 1 ring	640 μ ts 0.55 μ ia	1	
34,35	1142.062.206	Capacitor CRM-3-500-F-4300-I	4300 pF	2	11.8KHZ
36,37	02X0.460.008TY	Capacitor KMK-3 25/150	25/150 pF	2	
38	02X0.461.003TY	Capacitor CRM-1-250-F-150-I	150 pF	1	



CONVERTER
Circuit Diagram

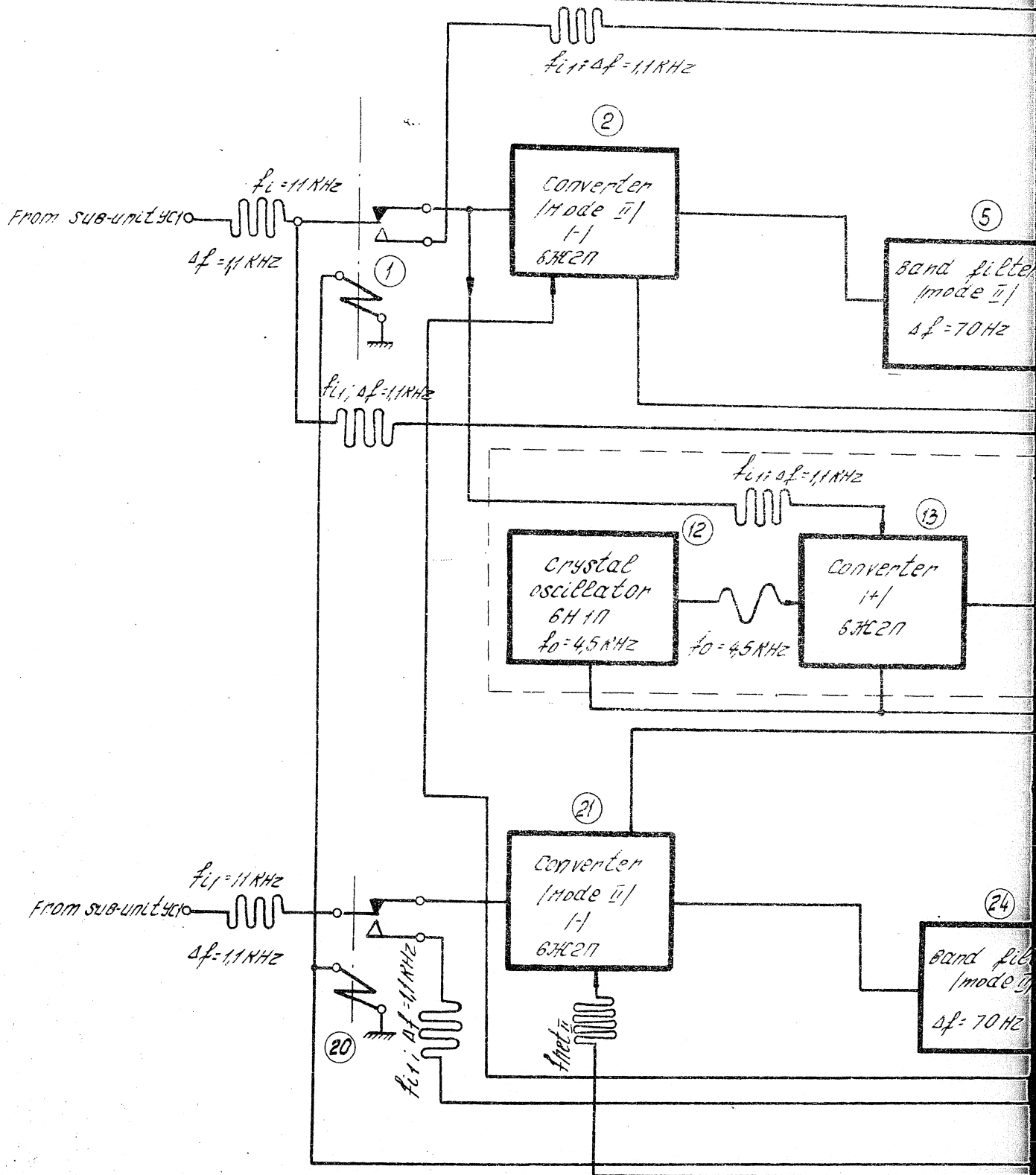
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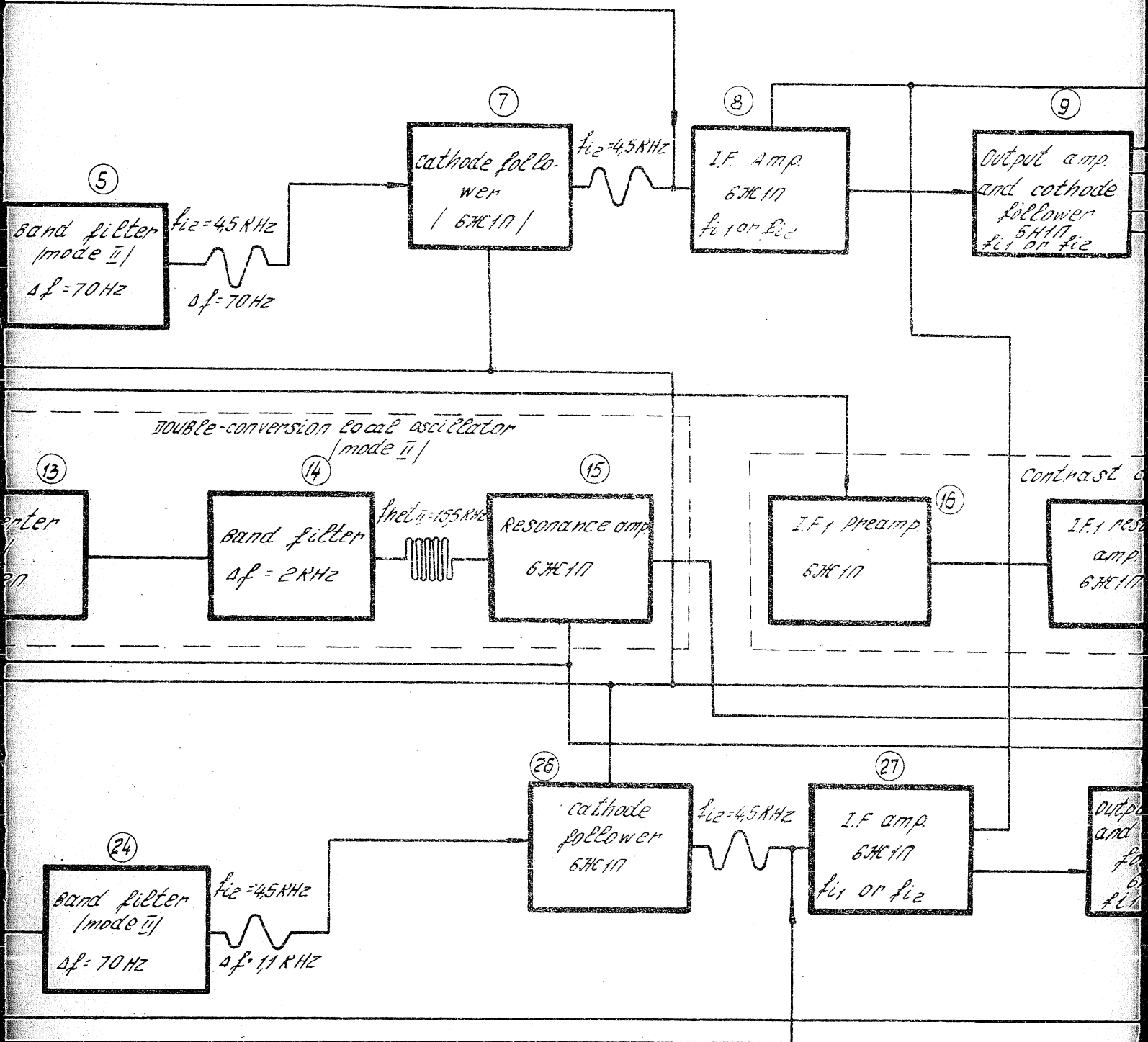
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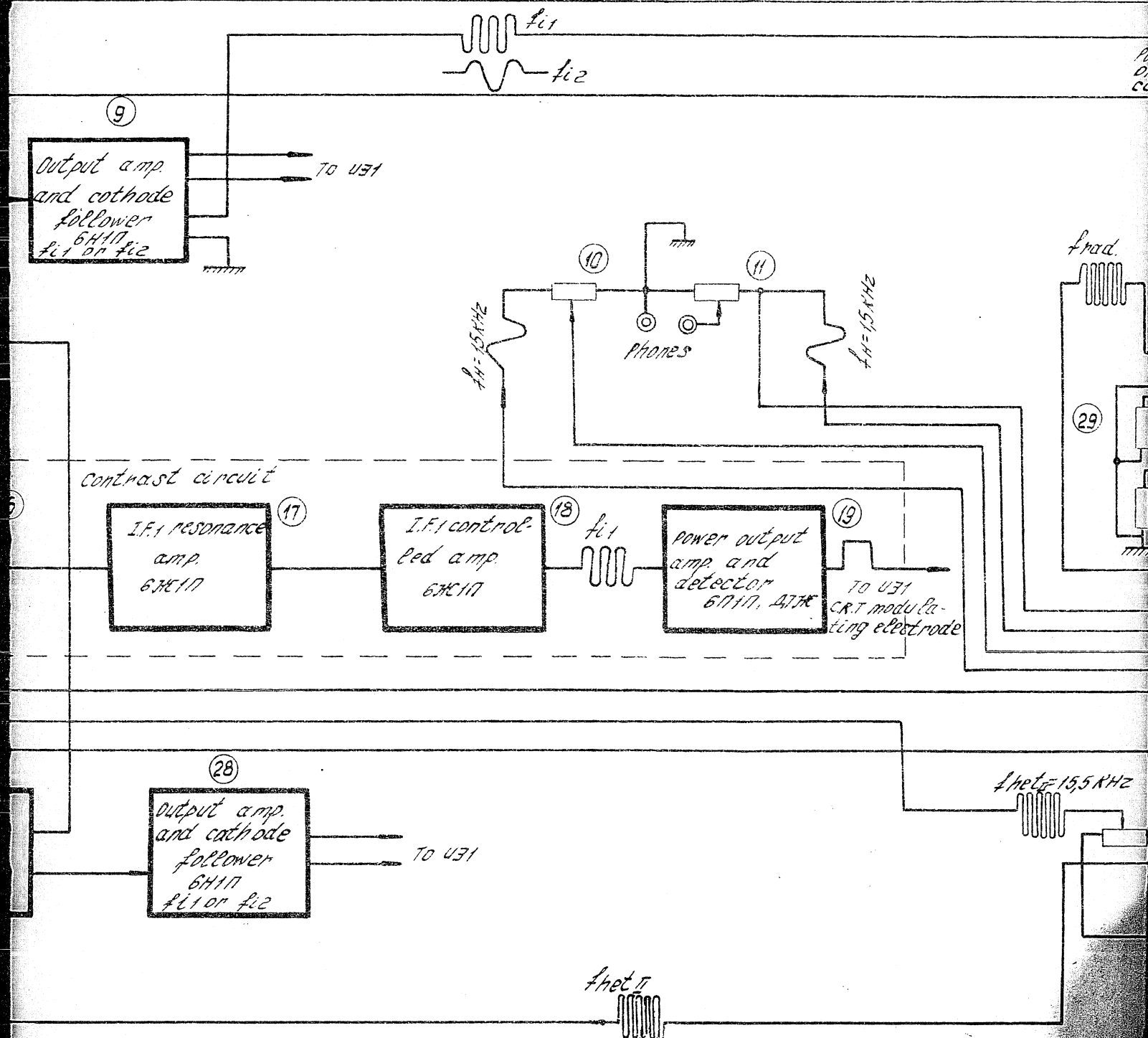
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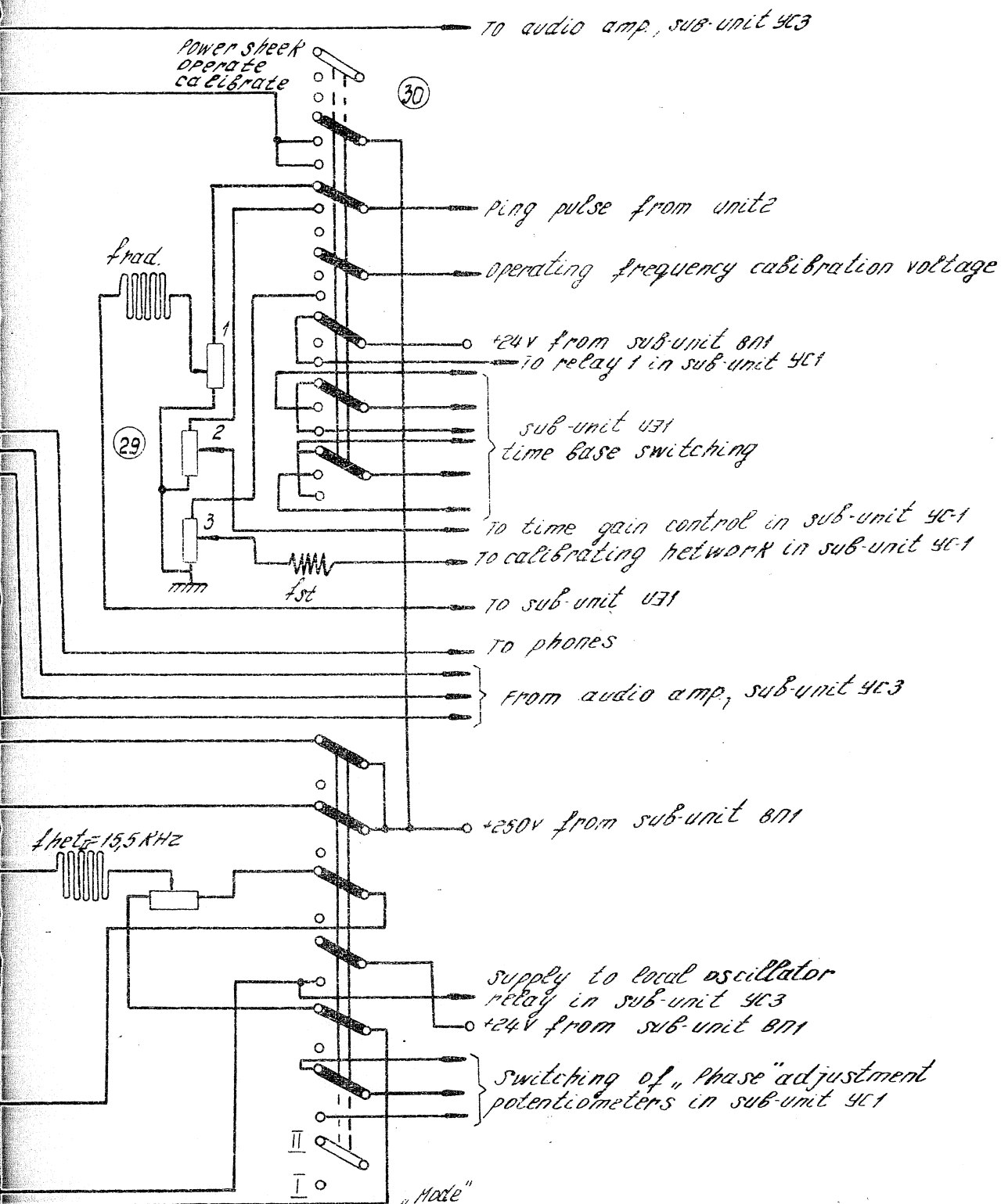
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on voltage

nit 40-1
nit 40-1

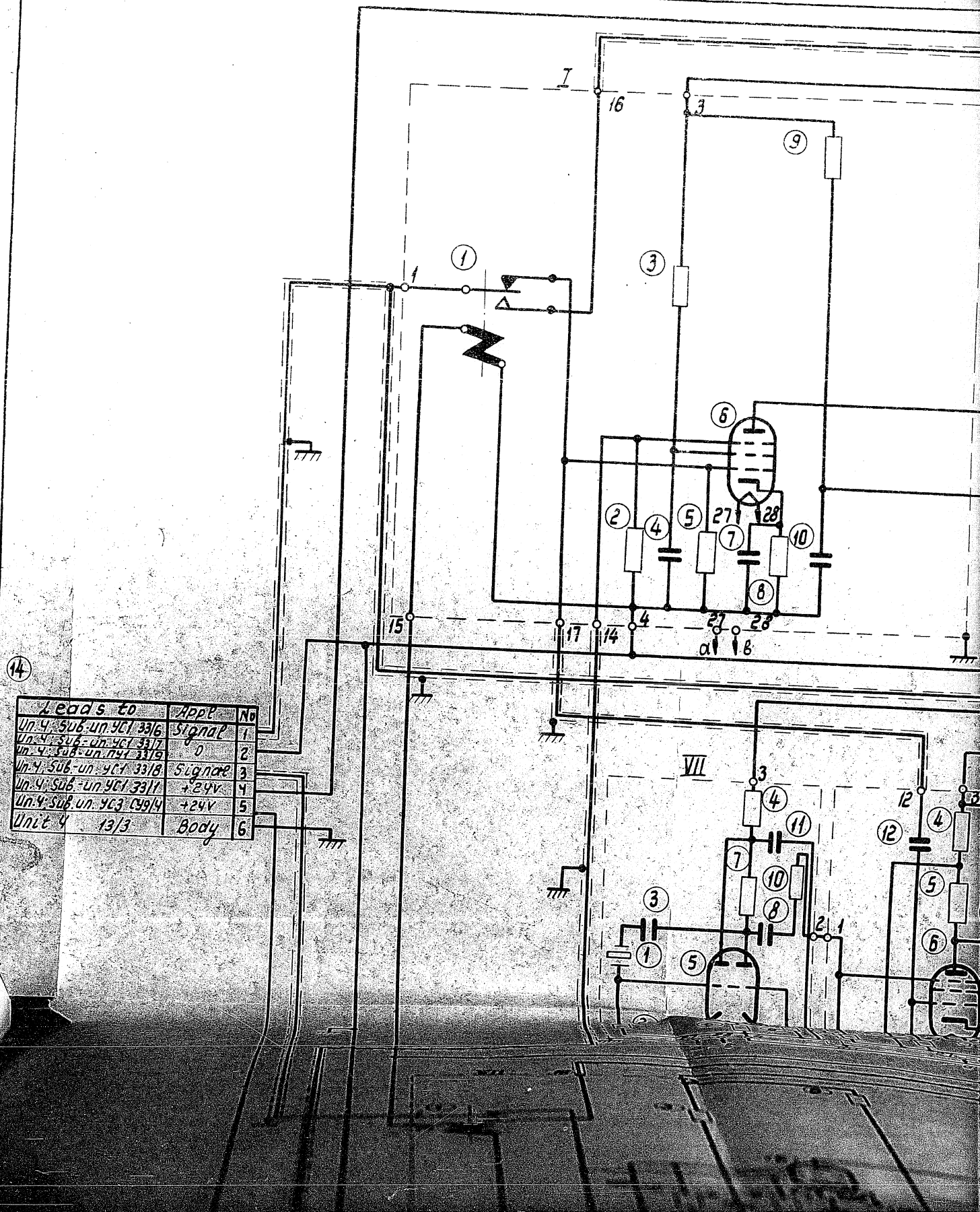
sub-unit 401A
functional
diagram

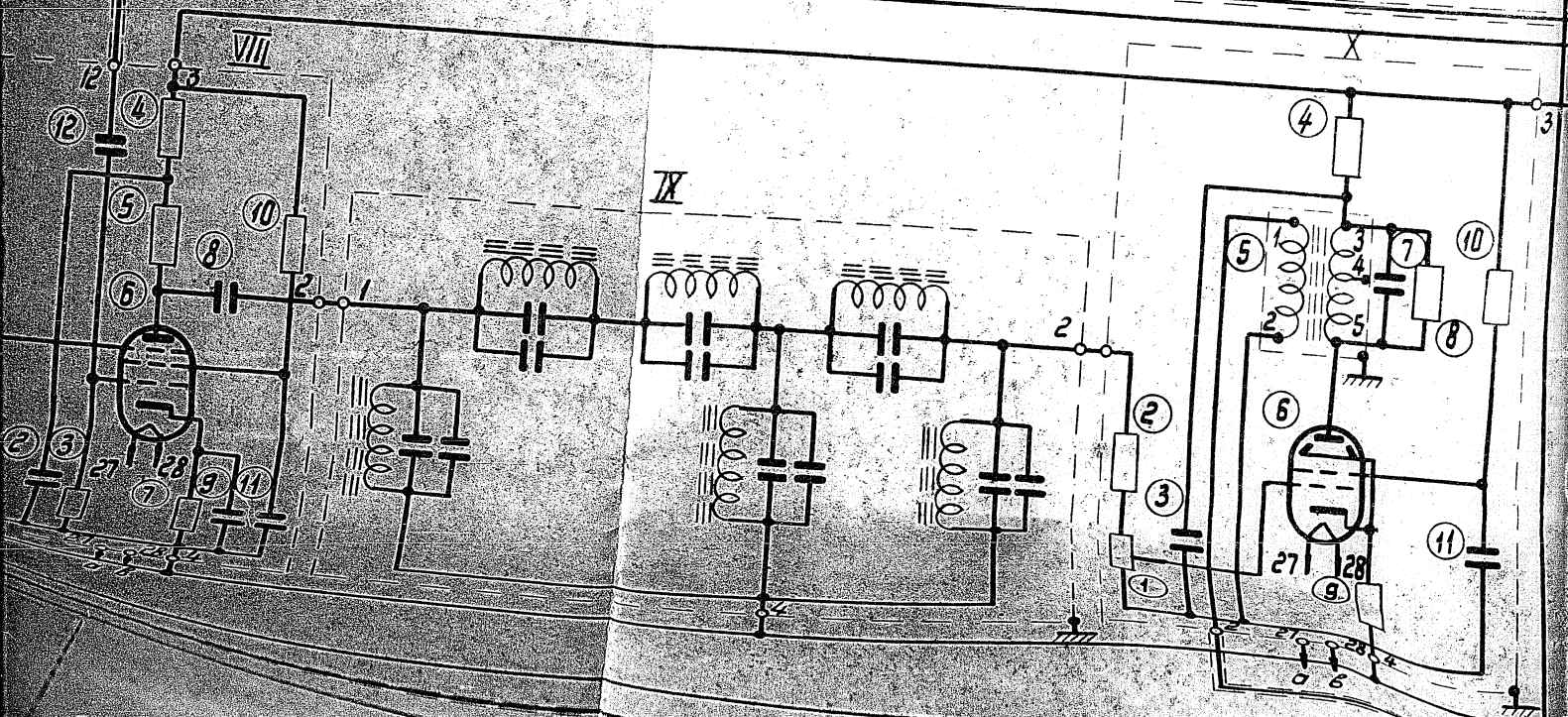
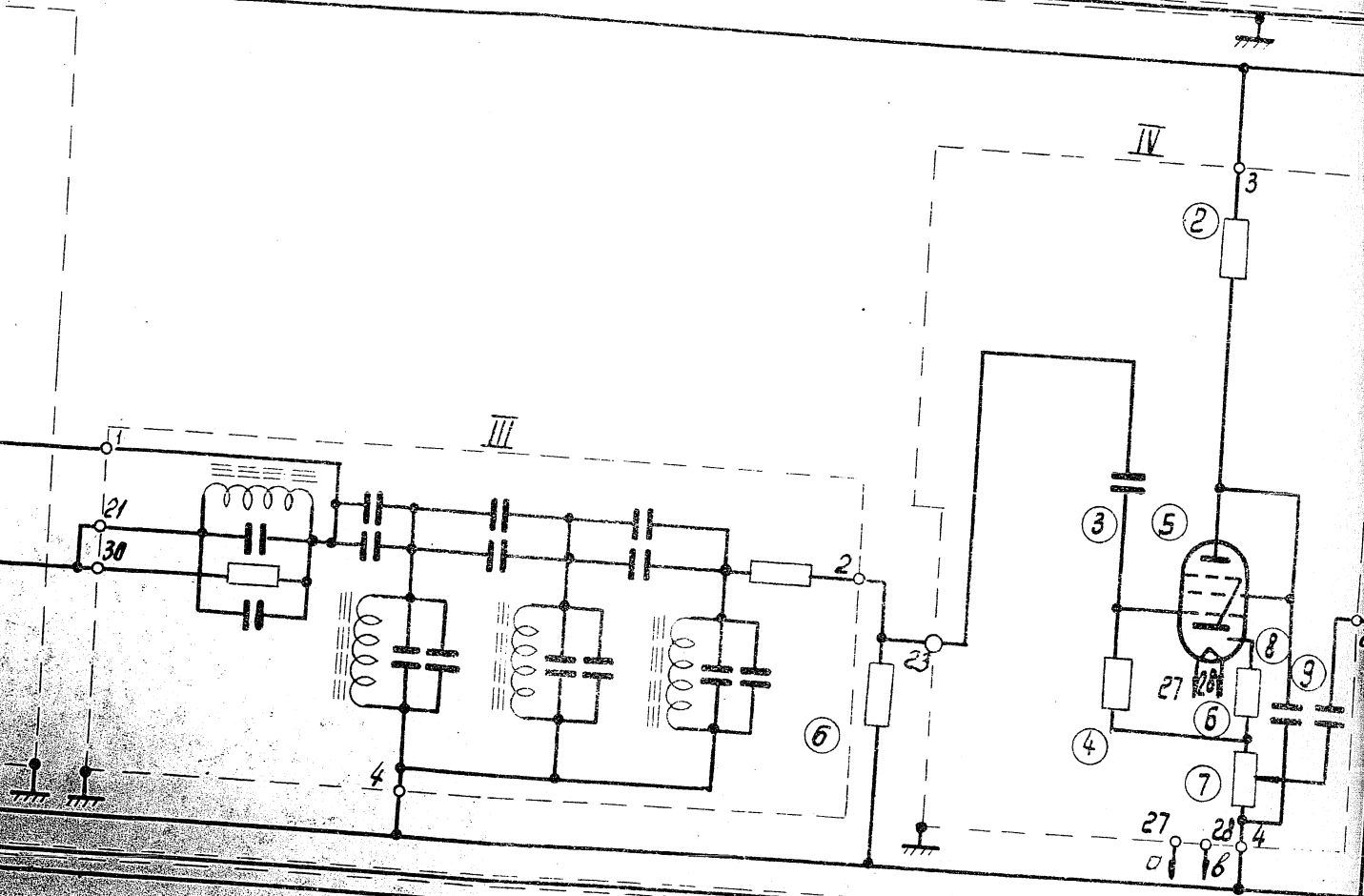
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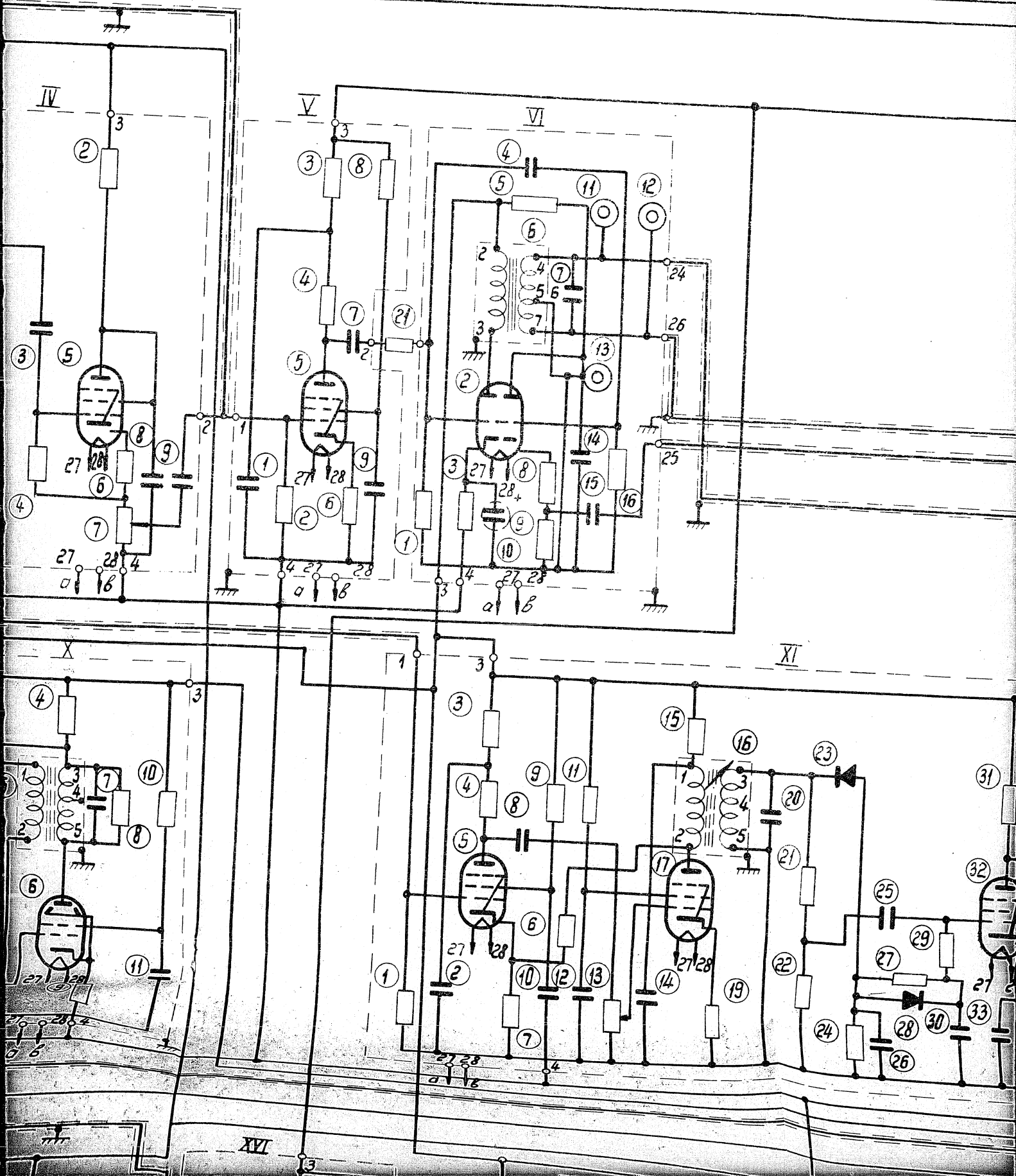
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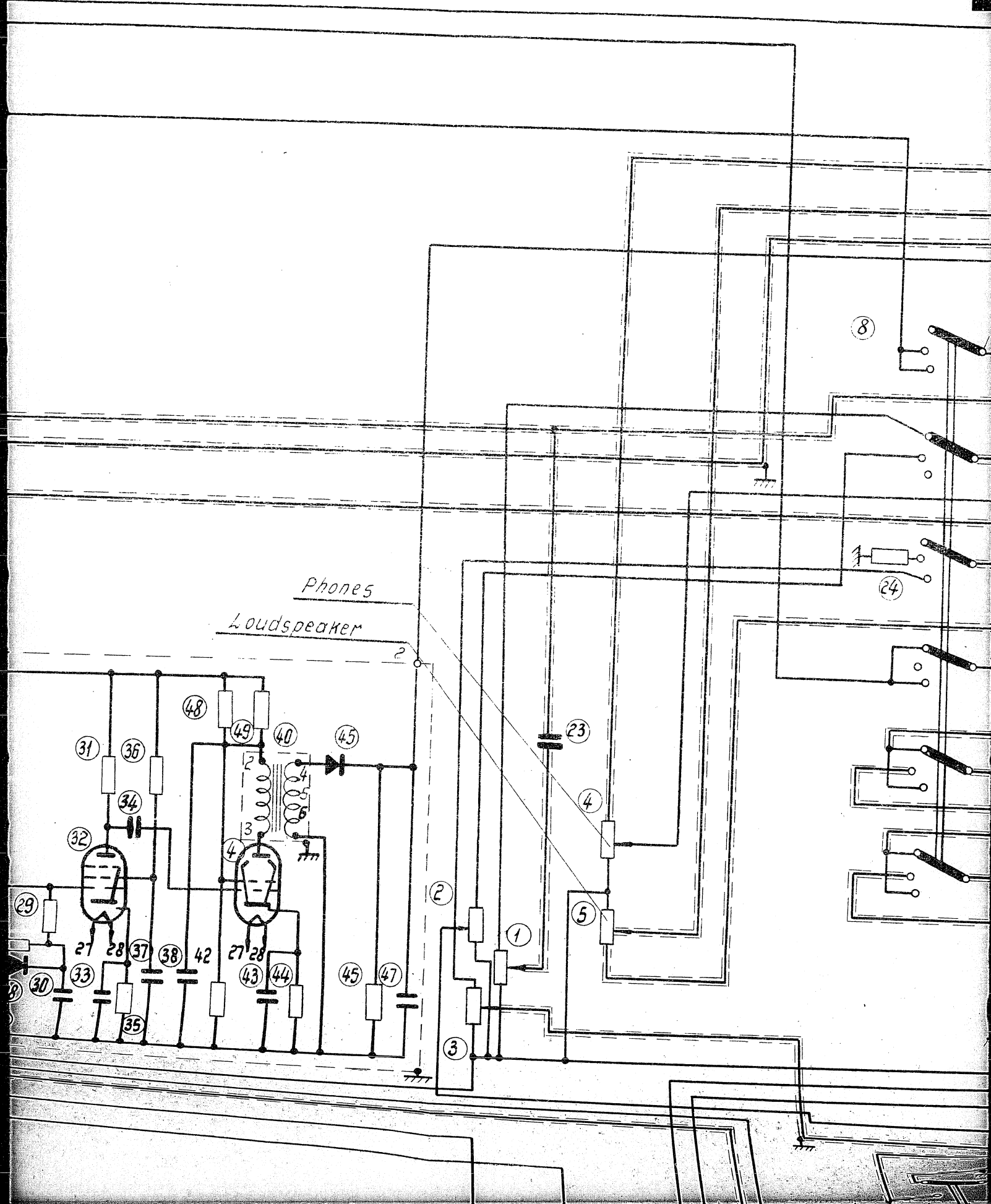
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Power check

Operate
Calibrate

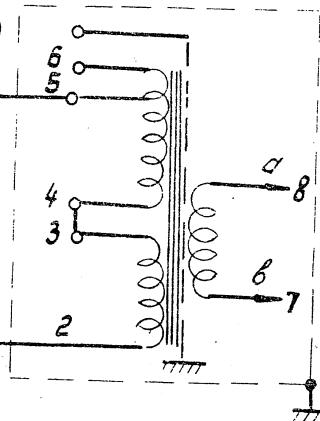
(15)

Nº	Applic	Leads to	Via
1			
2	Signal	Unit 4; Sub-un. U31 89/10	
3	Signal	Unit 4; Sub-un. U31 89/10	
4	0	Unit 4; Sub-un. U31 89/10	
5	Signal	Unit 4; Sub-un. U31 89/10	
6	Signal	Unit 4; Sub-un. U31 89/10	
7	Signal	Unit 4; Sub-un. U31 89/10	
8	Signal	Unit 4; Sub-un. U31 89/10	
9	0	Unit 4; Sub-un. U31 89/10	
10	Signal	Unit 4; Sub-un. U31 89/10	

(16)

Nº	Applic	Leads to	Via
1	Out. signal	Unit 4; Sub-un. U31 89/10	
2	"	Unit 4; Sub-un. U31 89/10	
3	"	Unit 4; Sub-un. U31 89/10	
4	"	Unit 4; Sub-un. U31 89/10	
5	+140V	Unit 4; Sub-un. U31 89/10	
6	Mode switch	Unit 4; Sub-un. U31 89/10	
7	"	Unit 4; Sub-un. U31 89/10	
8	"	Unit 4; Sub-un. U31 89/10	
9	"	Unit 4; Sub-un. U31 89/10	
10	"	Unit 4; Sub-un. U31 89/10	

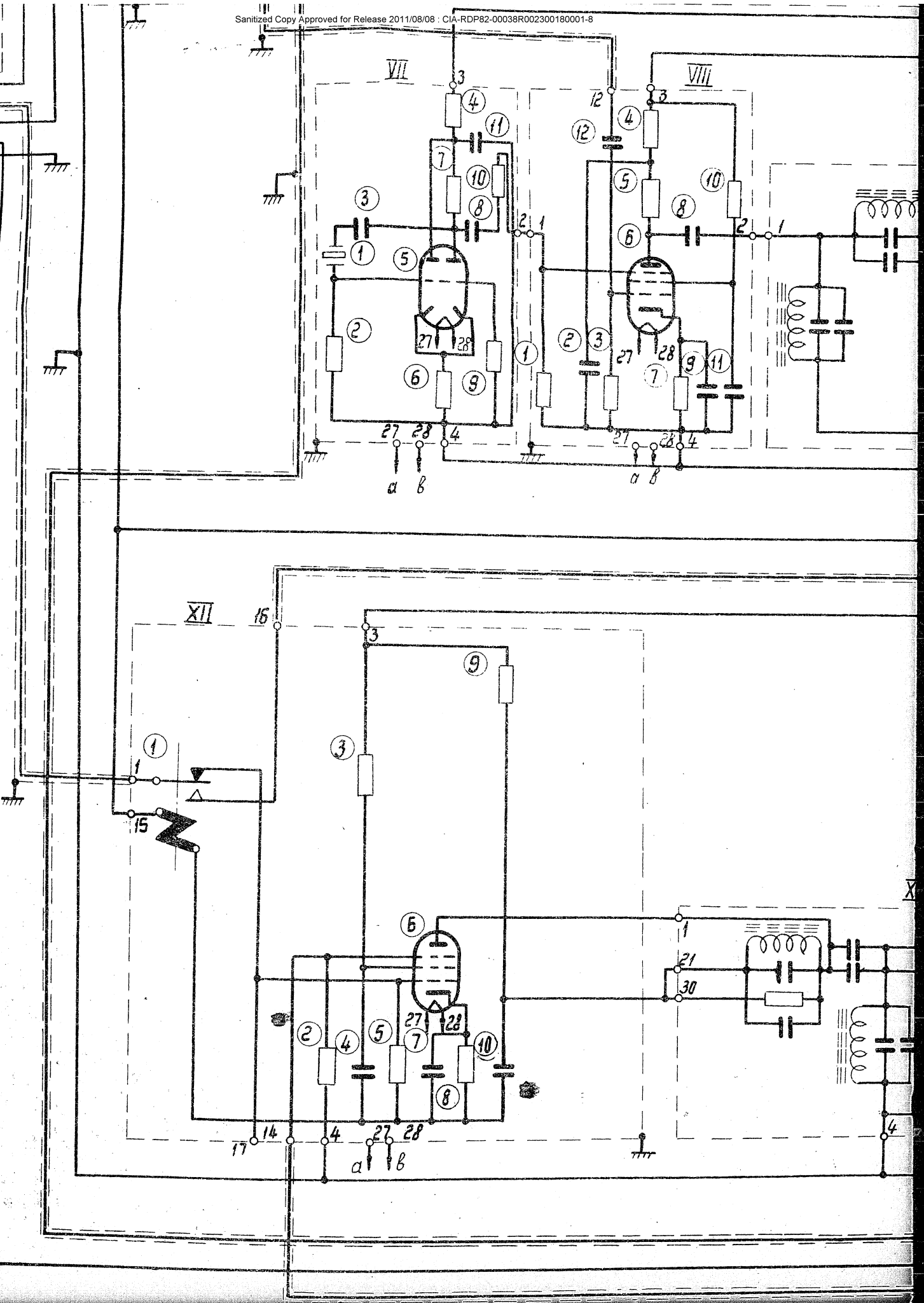
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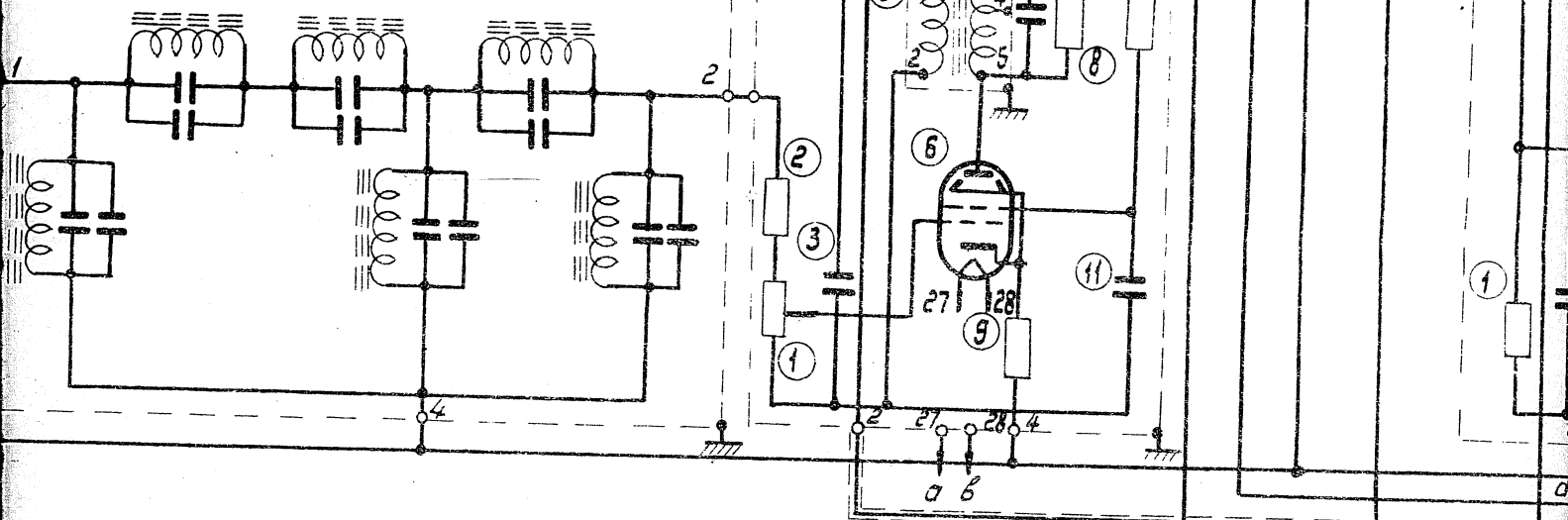
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Nº	Applic	Leads to	Via
1	Signal	Unit 4; Sub-un. U31 89/10	
2	Signal	Unit 4; Sub-un. U31 89/10	
3	Signal	Unit 4; Sub-un. U31 89/10	
4	Signal	Unit 4; Sub-un. U31 89/10	
5	Signal	Unit 4; Sub-un. U31 89/10	
6	Signal	Unit 4; Sub-un. U31 89/10	

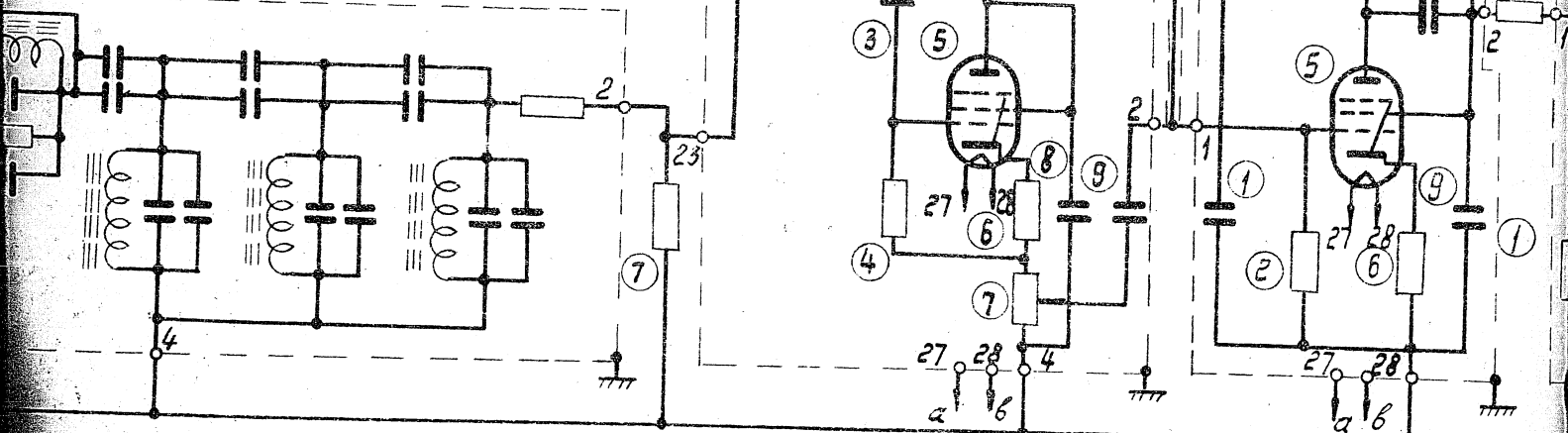
Appr	No
Signal	1
0	2
Signal	3
+24V	4
+24V	5
Body	6



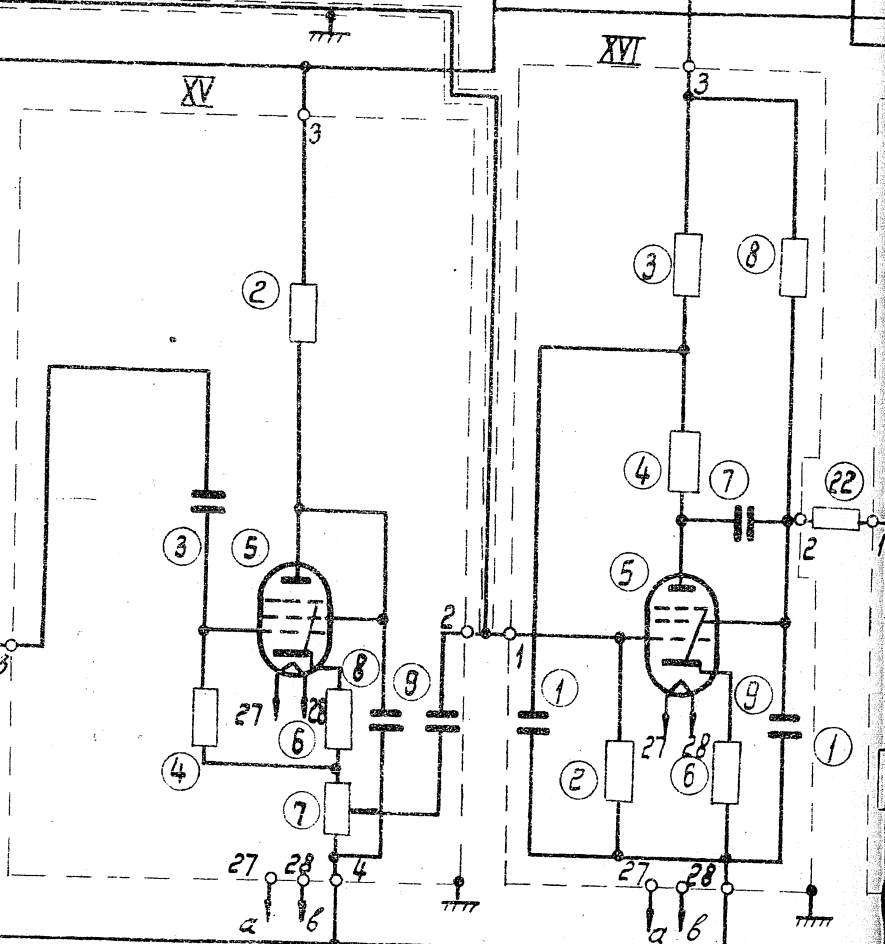
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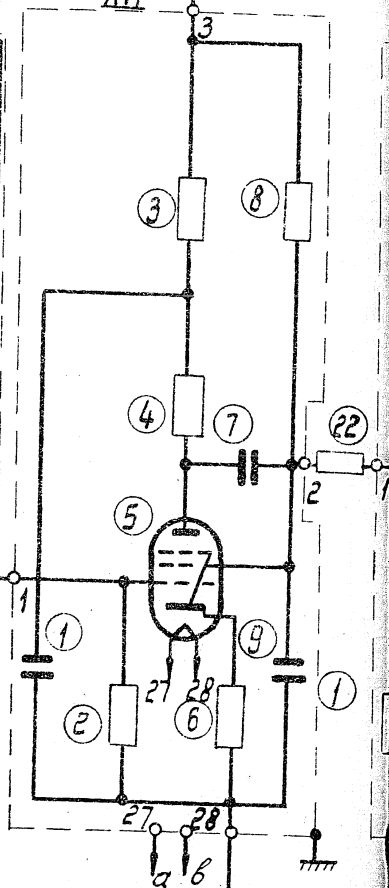
XIV

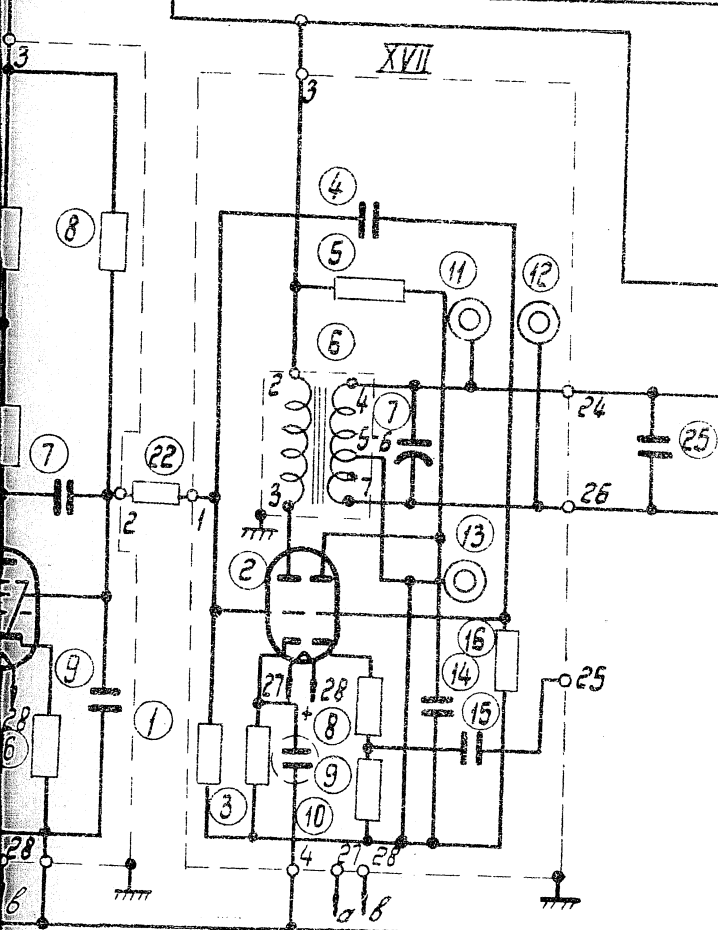
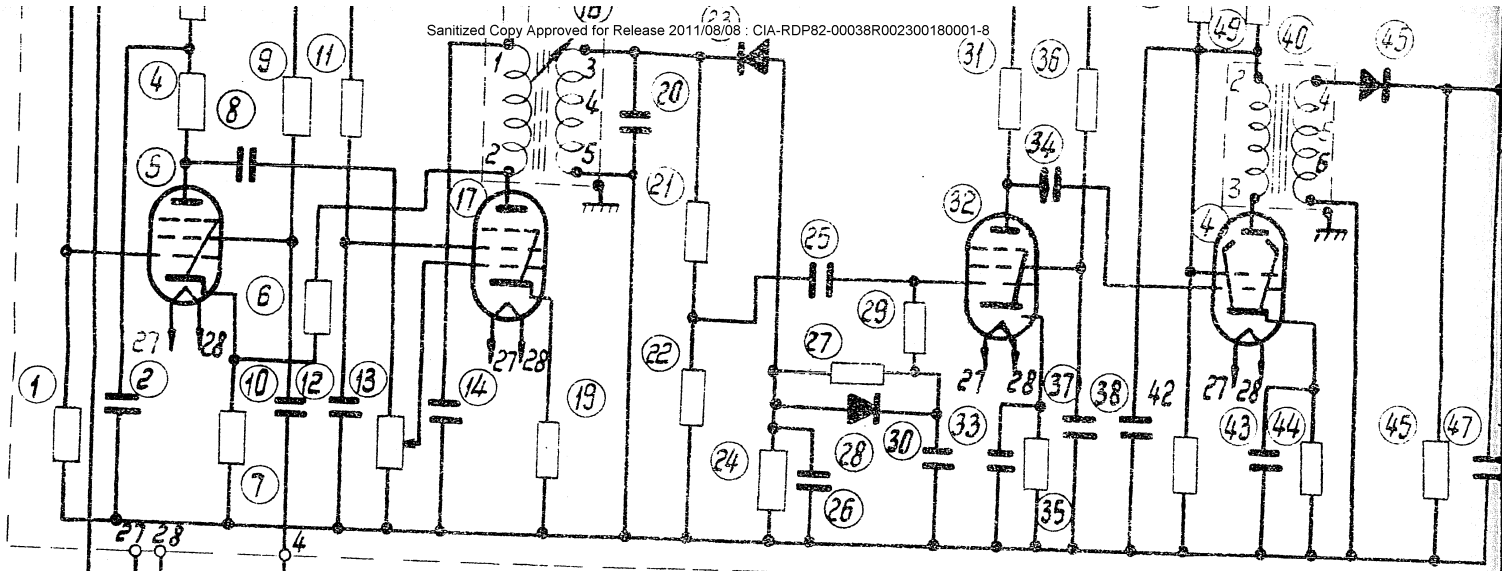


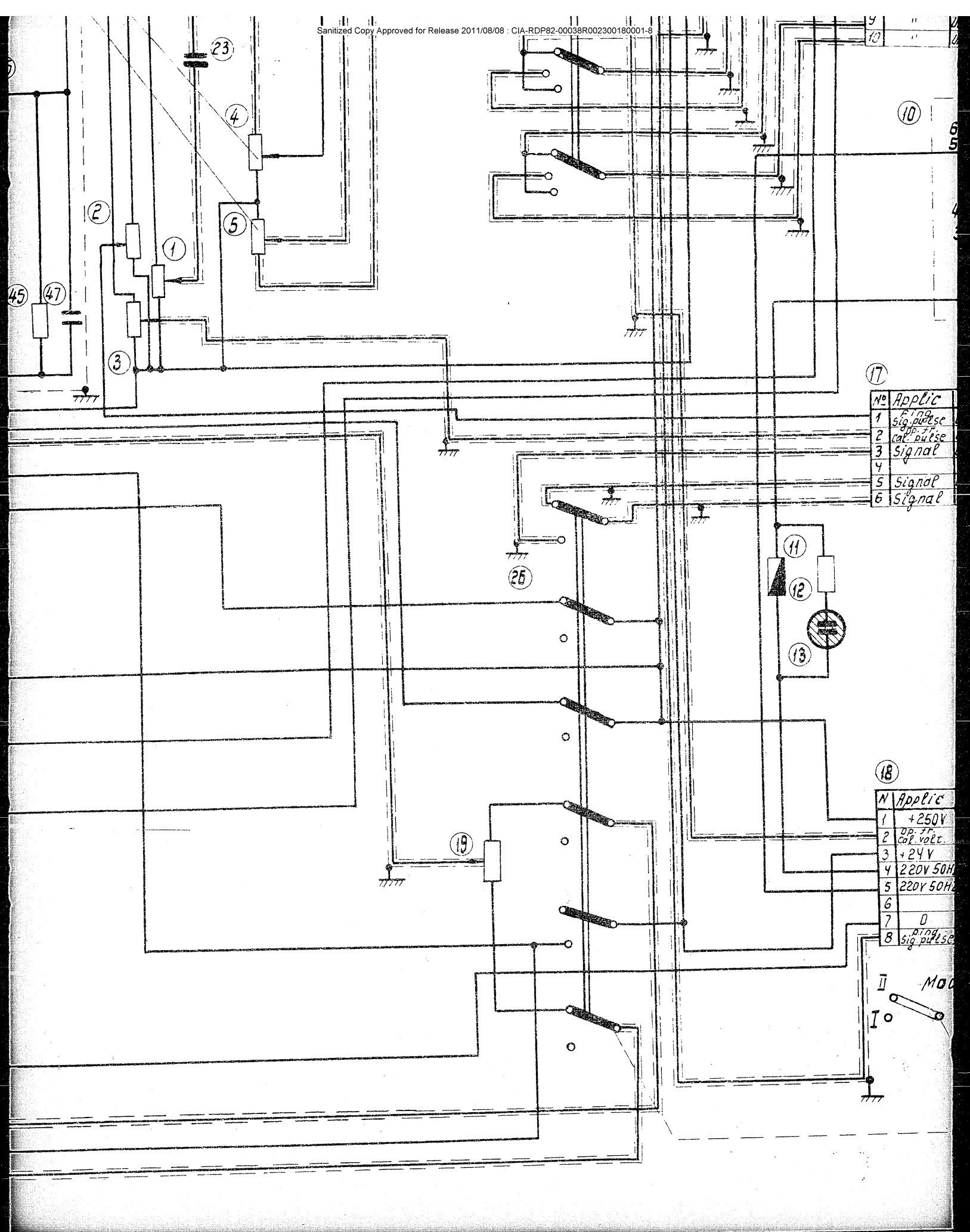
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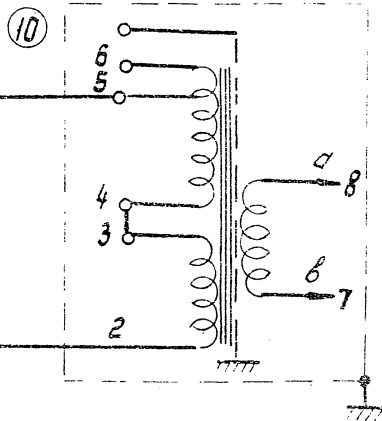


XVI



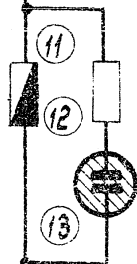






17

Nº	Applic	Leads to	Via
1	sig. pulse	Un. 4; Sub-un. YC1 33/4	
2	cal. pulse	Un. 4; Sub-un. YC1 33/5	
3	Signal	Un. 4; Sub-un. YC1 32/10	
4			
5	Signal	Un. 4; Sub-un. YC1 32/8	
6	Signal	Un. 4; Sub-un. YC1 32/7	



18

N	Applic	Leads to	Via
1	+250V	Un. 4A; Sub-un. BM 69/4	Unit 4 12/13
2	cal. volt.	Un. 2; Sub-un. GH 383/6	Unit 4 12/10
3	+24V	Un. 4A; Sub-un. BM 69/8	Unit 4 12/5
4	220V 50HZ	Un. 92, 2/5	Sub-un. YC1 32/2, Un. 4 1/2
5	220V 50HZ	Un. 92, 2/4	Sub-un. YC1 32/4, Un. 4 1/4
6			
7	0	Un. 2 22/8	Sub-un. YC1 33/3, Un. 4 1/2
8	sig. pulse	Un. 2; Sub-un. YC9 81/1	Unit 4 4/3

Made

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For Parts List, see NY2.039.035d

Sub-Unit YC1A
Circuit Diagram

NY2.039.035C x3

Sheet: 1

Sheet: 1

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
	ИУ3.219.0130н	Assembly I, XII			
1	Р10.452.132	Relay Р8С-6		1	
2	ГОСТ 7113-66	Resistor МНТ-0,5-200K±10%	200 kohms	1	
3	ГОСТ 7113-66	Resistor МНТ-0,5-51K±10%	51 kohms	1	
4	ГОСТ 6118-59	Capacitor КБТ-М-400-0,05±10%	0.05 mfd	1	
5	ГОСТ 7113-66	Resistor МНТ-0,5-200K±10%	200 kohms	1	
6		Tube 6Х1В-ВБ		1	
7		Capacitor КБТ-М-300-1,0-В	10 mfd	1	
8	ГОСТ 7113-66	Resistor МНТ-0,5-270±10%	270 ohms	1	
9	ГОСТ 7113-66	Resistor МНТ-0,5-24K±10%	24 kohms	1	
10	ГОСТ 6118-59	Capacitor КБТ-М-400-0,05±10%	0.05 mfd	1	
	ИУ2.067.061	Filter III, XIV			
	ИУ2.039.0140н	Assembly IV, IV			
1					
2	ГОСТ 7113-66	Resistor МНТ-0,5-10K±10%	10 kohms	1	
3	ГОСТ 6118-59	Capacitor КБТ-М-200-0,03±10%	0.03 mfd	1	
4	ГОСТ 7113-66	Resistor МНТ-0,5-1,1M±10%	1.1 Mohm	1	
5		Tube 6Х1В-ВБ		1	
6	ГОСТ 7113-66	Resistor МНТ-0,5-180±10%	180 ohms	1	

Parts for one assembly

SUB-UNIT YC 1A

Parts List

ИУ2.039.035 А

Sheet: 1 Sheets: 8

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
7		Resistor ORO-2-10K-00-3-20±20%	10 kohms	1	
8	GOST 6118-59	Capacitor KMT-M-400-0,05±10%	0.05 mfd	1	
9	GOST 6118-59	Capacitor KMT-M-100-0,02±10%	0.02 mfd	1	
	JW2.039.043	Assembly V, XVI			
1	GOST 6118-59	Capacitor KMT-M-400-0,05±10%	0.05 mfd	1	
2	GOST 7113-66	Resistor MNT-0,5-24K±10%	24 kohms	1	
3	GOST 7113-66	Resistor MNT-0,5-12K±10%	12 kohms	1	
4	GOST 7113-66	Resistor MNT-0,5-11K±5%	11 kohms	1	
5		Tube 6X1H-EB		1	
6	GOST 7113-66	Resistor MNT-0,5-300±10%	300 ohms	1	
7	GOST 11155-65	Capacitor CFM-1-250-F-0,01±10%	0.01 mfd	1	
8	GOST 7113-66	Resistor MNT-0,5-100K±10%	100 kohms	1	
9	GOST 6118-59	Capacitor KMT-M-400-0,05±10%	0.05 mfd	1	
	JW2.039.046	Assembly VI, XVII			
1	GOST 7113-66	Resistor MNT-0,5-300K±10%	300 kohms	1	
2		Tube 6X1H-EB		1	
3	GOST 7113-66	Resistor MNT-0,5-750±10%	750 ohms	1	
4	GOST 11155-65	Capacitor CFM-3-500-F-3300±10%	3300 pF	1	
5	GOST 7113-66	Resistor MNT-0,5-9,1K±10%	9.1 kohms	1	
6	JW4.735.1210n	Matching transformer		1	

JW2.039.025 II

Sheet: 2 Sheets: 8

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
7		Capacitor KMK-3-25/150	25/150 pF	1	
8	GOST 7113-66	Resistor MRT-0,5-2,4K±10%	2.4 kohms	1	
9	GOST 7113-66	Resistor MRT-0,5-300±10%	300 ohms	1	
10		Capacitor GPH-6-50/20M	20 mFd	1	
11-13	ББ.729.002	Jack		3	
14	GOST 6118-59	Capacitor KBT-4-400-0,05±10%	0.05 mFd	1	
15	GOST 6118-59	Capacitor KBT-4-200-0,03±10%	0.03 mFd	1	
16	GOST 7113-66	Resistor MRT-0,5-430K±10%	430 kohms	1	
	ИВ.730.001	Assembly VII			
1	GOST 11599-65	Crystal IVP-2084-4,5kHz-01	4.5 kHz	1	
2	GOST 7113-66	Resistor MRT-0,5-100K±10%	100 kohms	1	
3	GOST 9687-61	Capacitor KM-2-200-0,015±10%	0.015 mFd	1	
4	GOST 7113-66	Resistor MRT-0,5-2,7K±10%	2.7 kohms	1	
5		Tube 6H18-ES		1	
6	GOST 7113-66	Resistor MRT-0,5-12K±10%	12 kohms	1	
7	GOST 7113-66	Resistor MRT-0,5-68K±10%	68 kohms	1	
8	GOST 11155-65	Capacitor GPM-4-250-F-0,01±10%	0.01 mFd	1	
9	GOST 7113-66	Resistor MRT-0,5-100K±10%	100 kohms	1	
10	GOST 7113-66	Resistor MRT-0,5-1,5M±10%	1.5 Mohm	1	
11		Capacitor GPH-6-300/10M	10 mFd	1	

ИВ2.039.035 А

Sheet: 3 Sheets: 8

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
	NY2.219.012	Assembly VIII			
1	GOST 7113-66	Resistor MRT-0,5-560K $\pm$ 10%	560 kohms	1	
2	GOST 6118-59	Capacitor KST-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
3	GOST 7113-66	Resistor MRT-0,5-270K $\pm$ 10%	270 kohms	1	
4	GOST 7113-66	Resistor MRT-0,5-10K $\pm$ 10%	10 kohms	1	
5	GOST 7113-66	Resistor MRT-0,5-5,1K $\pm$ 5%	5.1 kohms	1	
6		Tube 6X2H-BB		1	
7	GOST 7113-66	Resistor MRT-0,5-270 $\pm$ 10%	270 ohms	1	
8	GOST 6118-59	Capacitor KST-M-600-0,02 $\pm$ 10%	0.02 mfd	1	
9		Capacitor SEPO-1-300-2,0-H	2 mfd	1	
10	GOST 7113-66	Resistor MRT-0,5-51K $\pm$ 10%	51 kohms	1	
11	GOST 6118-59	Capacitor KST-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
12	GOST 11155-55	Capacitor CMA-1-250-F-300 $\pm$ 10%	300 pF	1	
	NY2.067.059	Filter IX			
	NY2.039.037	Assembly X			
1		Resistor CRO-2-4,7K-00-3-20 $\pm$ 20%	4.7 kohms	1	
2	GOST 7113-66	Resistor MRT-0,5-430 $\pm$ 10%	430 ohms	1	
3	GOST 6118-59	Capacitor KET-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
4	GOST 7113-66	Resistor MRT-0,5-5,6K $\pm$ 10%	5.6 kohms	1	
5	NY4.735.1290n	Transformer		1	
6		Tube 6X5N		1	
					NY2.039.035 A
					Sheet: 4 Sheets: 8

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
7	GOST 11155-65	Capacitor CFM-3-500-F-1500±5%	1500 pF	1	
8	GOST 7113-66	Resistor MHT-0,5-22K±10%	22 kohms	1	
9	GOST 7113-66	Resistor MHT-0,5-300±10%	300 ohms	1	
10	GOST 7113-66	Resistor MHT-0,5-130K±10%	130 kohms	1	
11	GOST 6118-59	Capacitor KST-M-400-0,05±10%	0.05 mfd	1	
	JW2.039.047	Assembly XI			
1	GOST 7113-66	Resistor MHT-0,5-100K±10%	100 kohms	1	
2	GOST 6118-59	Capacitor KST-M-400-0,05±10%	0.05 mfd	1	
3	GOST 7113-66	Resistor MHT-0,5-36K±10%	36 kohms	1	
4	GOST 7113-66	Resistor MHT-0,5-1,5K±10%	1.5 kohm	1	
5		Tube 6X4U-XB		1	
6	GOST 7113-66	Resistor MHT-0,5-51K±10%	51 kohms	1	
7	GOST 7113-66	Resistor MHT-0,5-470±10%	470 ohms	1	
8	GOST 11155-65	Capacitor CFM-4-250-F-0,01±10%	0.01 mfd	1	
9	GOST 7113-66	Resistor MHT-0,5-220K±10%	220 kohms	1	
10	GOST 6118-59	Capacitor KST-M-400-0,05±10%	0.05 mfd	1	
11	GOST 7113-66	Resistor MHT-0,5-180K±10%	180 kohms	1	
12	GOST 6118-59	Capacitor KST-M-400-0,05±10%	0.05 mfd	1	
13		Resistor CHO-2-47K-06-3-20±20%	47 kohms	1	
14	GOST 6118-59	Capacitor KST-M-400-0,05±10%	0.05 mfd	1	

JW2.039.035 II

Sheet: 5 Sheet: 8

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
15	GOST 7113-66	Resistor МНТ-0,5-36K±10%	36 kohms	1	
16	ИВА.735.1290u	Transformer		1	
17		Tube 6X11B-EB		1	
19	GOST 7113-66	Resistor МНТ-0,5-680±10%	680 ohms	1	
20	GOST 11155-65	Capacitor СГМ-3-100-Г-3900±10%	3900 pF	1	
21	GOST 7113-66	Resistor МНТ-0,5-33K±10%	33 kohms	1	
22	GOST 7113-66	Resistor МНТ-0,5-39K±10%	39 kohms	1	
23		Diode Д 209		1	
24	GOST 7113-66	Resistor МНТ-0,5-33K±10%	33 kohms	1	
25	GOST 11155-65	Capacitor СГМ-4-250-Г-3200±10%	3200 pF	1	
26	GOST 6118-59	Capacitor КДП-М-200-0,1±10%	0.1 mfd	1	
27	GOST 7113-66	Resistor МНТ-0,5-1,0K±10%	1 kohm	1	
28		Diode Д 209		1	
29	GOST 7113-66	Resistor МНТ-0,5-51K±10%	51 kohms	1	
30		Capacitor МБГО-1-300-1-II	1 mfd	1	
31	GOST 7113-66	Resistor МНТ-0,5-27K±10%	27 kohms	1	
32		Tube 6X11B-EB		1	
33	GOST 6118-59	Capacitor КДП-М-200-0,1±10%	0.1 mfd	1	
34	GOST 6118-59	Capacitor КДП-М-400-0,05±10%	0.05 mfd	1	
35	GOST 7113-66	Resistor МНТ-0,5-220±10%	220 ohms	1	
36	GOST 7113-66	Resistor МНТ-0,5-150K±10%	150 kohms	1	
					ИВ2.039.035 II
					Sheet: 6 Sheets: 8

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
38	GOST 6113-59	Capacitor KMT-M-400-0,05 $\pm$ 10%	0.05 mfd	2	
40	HW4.735.1260H	Transformer		1	
41		Tube 6N1P-BB		1	
42	GOST 7113-66	Resistor MHT-0,5-51K $\pm$ 10%	51 kohms	1	
43		Capacitor MHTO-1-500-0,5-7	0.5 mfd	1	
44	GOST 7113-66	Resistor MHT-2-470 $\pm$ 10%	470 ohms	1	
45		Diode 1 226		1	
46	GOST 7113-66	Resistor MHT-0,5-47K $\pm$ 10%	47 kohms	1	
47	GOST 6113-59	Capacitor KMT-M-400-0,015 $\pm$ 10%	0.015 mfd	1	
49	GOST 7113-66	Resistor MHT-2-16K $\pm$ 10%	16 kohms	2	
		Common Components			
1		Resistor CHO-2-100K-00-3-20 $\pm$ 20%	100 kohms	1	
2		Resistor CHO-2-3,3K-00-3-20 $\pm$ 20%	3.3 kohms	1	
3		Resistor CHO-2-4,7K-00-3-20 $\pm$ 20%	4.7 kohms	1	
4		Resistor CHO-2-4,7K-00-5-20 $\pm$ 20%	4.7 kohms	1	
5		Resistor CHO-2-220K-00-3-20 $\pm$ 20%	220 kohms	1	
7	GOST 7113-66	Resistor MHT-0,5-330K $\pm$ 10%	330 kohms	2	
8		Switch 3H6H-K13		1	
40	HW4.700.0060H	Transformer Tp 2040		1	
11	GOST 7113-66	Resistor MHT-2-20K $\pm$ 20%	20 kohms	1	
12	GOST 5010-53	Fuse HK-45-2	2 A	1	

HW2.039.035 II

Sheet: 7 Sheets: 8

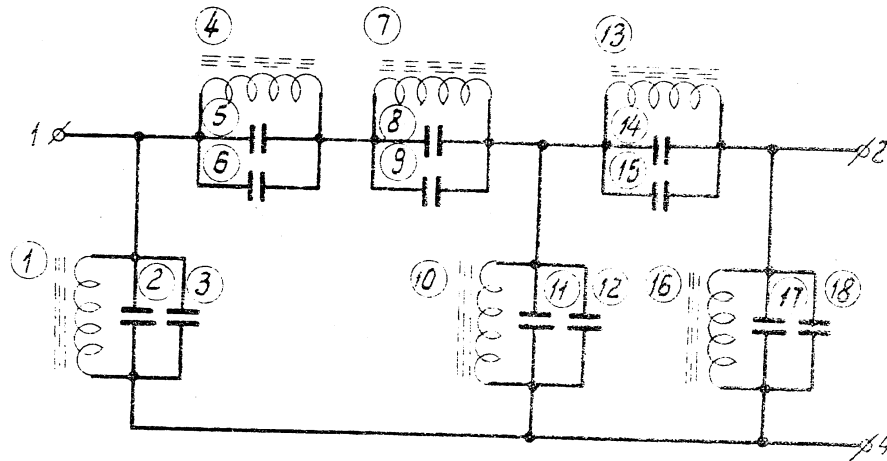
Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
13		Lamp MIL-3		1	
14		Terminal block HC4-6	6-term.	1	
15-16		Terminal block HC4-10	10-term.	6	
17		Terminal block HC4-6	6-term.	1	
18		Terminal block HC4-8	8-term.	1	
19		Resistor CFO-2-100-00-3-20 $\pm$ 10%	100 kohms	1	
21, 22	GOST 7113-66	Resistor MHT-0,5-100 $\pm$ 10%	100 ohms	2	
23	GOST 11155-65	Capacitor CFM-1-250-F-1000 $\pm$ 10%	1000 pF	1	
24	GOST 7113-66	Resistor MHT-0,5-200 $\pm$ 10%	200 ohms	1	
25	GOST 11155-65	Capacitor CFM-1-250-F-100 $\pm$ 10%	100 pF	1	
26		Switch 2W5H-K13		1	

IN2.039.035 II

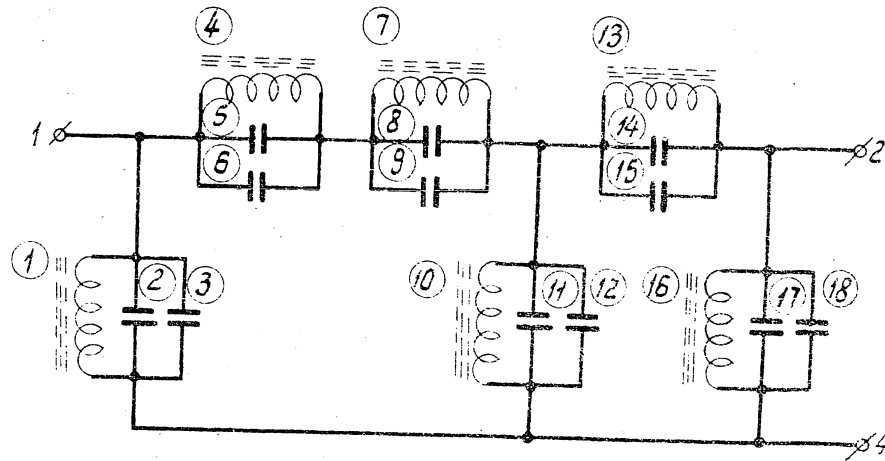
Sheet: 8 Sheets: 8

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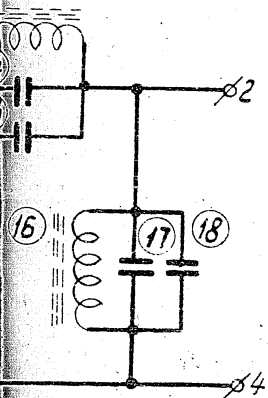
Item №	Standard Spec. No. dwg. No.
1	
2	1142.062.20
3	
4	
5	1142.062.20
6	
7	
8	1142.062.20
9	
10	
11	1142.062.20
12	
13	
14	1142.062.20
15	
16	
17	1142.062.20
18	



Item №	Standard Spec. or dwg. №
1	
2	NY2.062.20
3	
4	
5	NY2.062.20
6	
7	
8	NY2.062.20
9	
10	
11	NY2.062.22
12	
13	
14	NY2.062.21
15	
16	
17	NY2.062.21
18	

Parts list

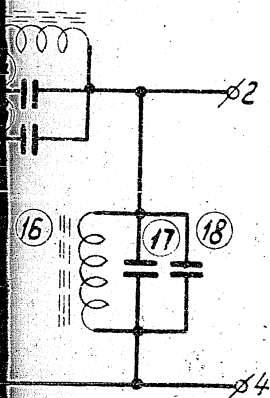
Item No	Standard Spec. or dwg. No	Name, type	Value	No	Remark
1		Inductor B4-32 24x0.25-1 ring	650 μ S, ϕ 2 dia	1	
2	NY2.062.221	Capacitor CRM-4-250-F-5800-I	5800 pF	1	15.5 KHZ
3		Capacitor CRM-4-250-F-7500-I	7500 pF	1	
4		Inductor T4-60 24x0.35 2 ring	833 μ S, ϕ 0.17	1	
5	NY2.062.204	Capacitor CRM-3-500-F-1300-I	1300 pF		12.8 KHZ
6		Capacitor CRM-2-250-F-1200-I	1200 pF	1	
7		Inductor B4-32 24x0.35 2 ring	622 μ S, ϕ 1.7 dia	1	
8	NY2.062.205	Capacitor CRM-3-500-F-1300-I	1300 pF	1	18.0 KHZ
9		Capacitor CRM-2-250-F-1200-I	1200 pF	1	
10		Inductor B4-32 24x0.35 1 ring	540 μ S, ϕ 1.3 dia	1	
11	NY2.062.222	Capacitor CRM-4-250-F-10000-I	0.01 mF	1	16.0 KHZ
12		Capacitor CRM-4-250-F-10000-I	0.01 mF	1	
13		Inductor T4-60 44x0.75 2 ring	2840 μ S, ϕ 2.3 dia	1	
14	NY2.062.216	Capacitor CRM-2-250-F-1100-I	1100 pF	1	3.75 KHZ
15		Capacitor CRM-2-250-F-1000-I	1000 pF	1	
16		Inductor B4-32 24x0.35 1 ring	800 μ S, ϕ 1.7 dia	1	
17	NY2.062.217	Capacitor CRM-3-500-F-3600-I	3600 pF	1	17.3 KHZ
18		Capacitor CRM-3-500-F-2200-I	2200 pF	1	



FILTER	NY2067059CX3	
Circuit Diagram	sheet: 1	sheets: 1

Parts list

Item No	Standard Spec. or dwg. No	Name, type	Value	No	Remark
1		Inductor B4-32 24x0.25-1 ring	660 ts, $\phi 2$ dia	1	
2	NY2.062.221	Capacitor CRM-4-250-F-6800-I	6800 pF	1	15.5 KHZ
3		Capacitor CRM-4-250-F-7500-I	7500 pF	1	
4		Inductor T4-60 24x0.35 2 ring	833W, $\phi 0.17$	1	
5	NY2.062.204	Capacitor CRM-3-500-F-1300-I	1300 pF		12.8 KHZ
6		Capacitor CRM-2-250-F-1200-I	1200 pF	1	
7		Inductor B4-32 24x0.35-2 ring	822 ts, $\phi 1.7$ dia	1	
8	NY2.062.205	Capacitor CRM-3-500-F-1300-I	1300 pF	1	18.0 KHZ
9		Capacitor CRM-2-250-F-1200-I	1200 pF	1	
10		Inductor B4-32 24x0.35-1 ring	540 ts, $\phi 2.3$ dia	1	
11	NY2.062.222	Capacitor CRM-4-250-F-10000-I	0.01 mF	1	16.0 KHZ
12		Capacitor CRM-4-250-F-10000-I	0.01 mF	1	
13		Inductor T4-60 44x0.75-2 ring	2840 ts, $\phi 2.3$ dia	1	
14	NY2.062.216	Capacitor CRM-2-250-F-1100-I	1100 pF	1	3.75 KHZ
15		Capacitor CRM-2-250-F-1000-I	1000 pF	1	
16		Inductor B4-32 24x0.35-1 ring	800 ts, $\phi 1.7$ dia	1	
17	NY2.062.217	Capacitor CRM-3-500-F-3600-I	3600 pF	1	17.3 KHZ
18		Capacitor CRM-3-500-F-2200-I	2200 pF	1	



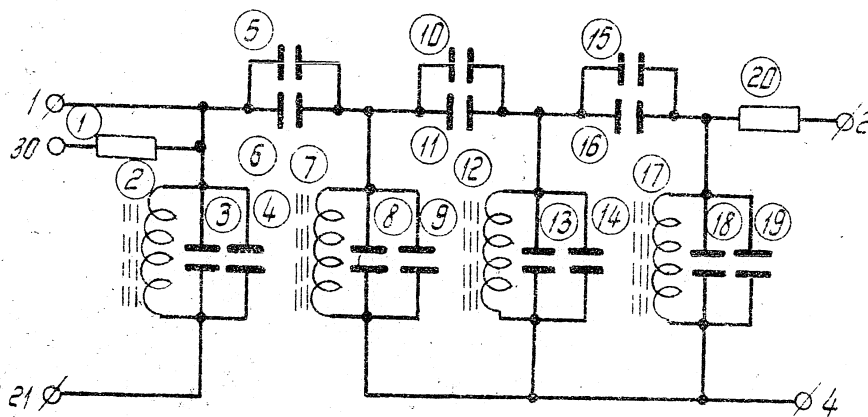
FILTER

NY2.067059CX3

Circuit Diagram

sheet: 1

sheets: 1

Item
No

1

2

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10,11

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Item No	Standard, Spec. or dwg. NO	Name type	Value	No	Remark
1	074046700374	Resistor MNT-05-360 $\pm$ 5%	360K	1	
2		Inductor T460 55 $\times$ 08 2ring	750LS 0.59d.c.a	1	
3	1142062226	Capacitor K61-U-400-0015 $\pm$ 5%	0015 PF	1	4.535KHz
4		Capacitor C1H-4-250-F-100000	001 MF	1	
5,6	074046100374	Capacitor C1H-1-250-F-200-T	200 PF	2	total caps 394PF tolerance $\pm$ 2%
7		Inductor T460 55 $\times$ 08 2ring	750LS 0.77d.c.a	1	
8	1142062228	Capacitor K61-U-200-004 $\pm$ 5%	004 MF	1	4.535KHz
9		Capacitor C1H-4-250-F-100000	001 MF	1	
10,11	074046100374	Capacitor C1H-1-250-F-200-T	200 PF	2	total capaci- tance 394PF $\pm$ 2%
12		Inductor T460 55 $\times$ 08 2ring	750LS 0.77d.c.a	1	
13	1142062228	Capacitor K61-U-200-004 $\pm$ 5%	004 MF	1	
14		Capacitor C1H-4-250-F-100000	001 MF	1	
15,16	074046100374	Capacitor C1H-1-250-F-200-T	200 PF	2	total capaci- tance 394PF $\pm$ 2%
17		Inductor T460 55 $\times$ 08 2ring	750LS 0.59d.c.a	1	
18	1142062226	Capacitor K61-U-400-0015 $\pm$ 5%	0015 MF	1	4.535KHz
19		Capacitor C1H-4-250-F-100000	001 MF	1	
20	074046700374	Resistor MNT-05-30N $\pm$ 5%	30K	1	

filter
circuit
diagram

1142067.061 (X3)

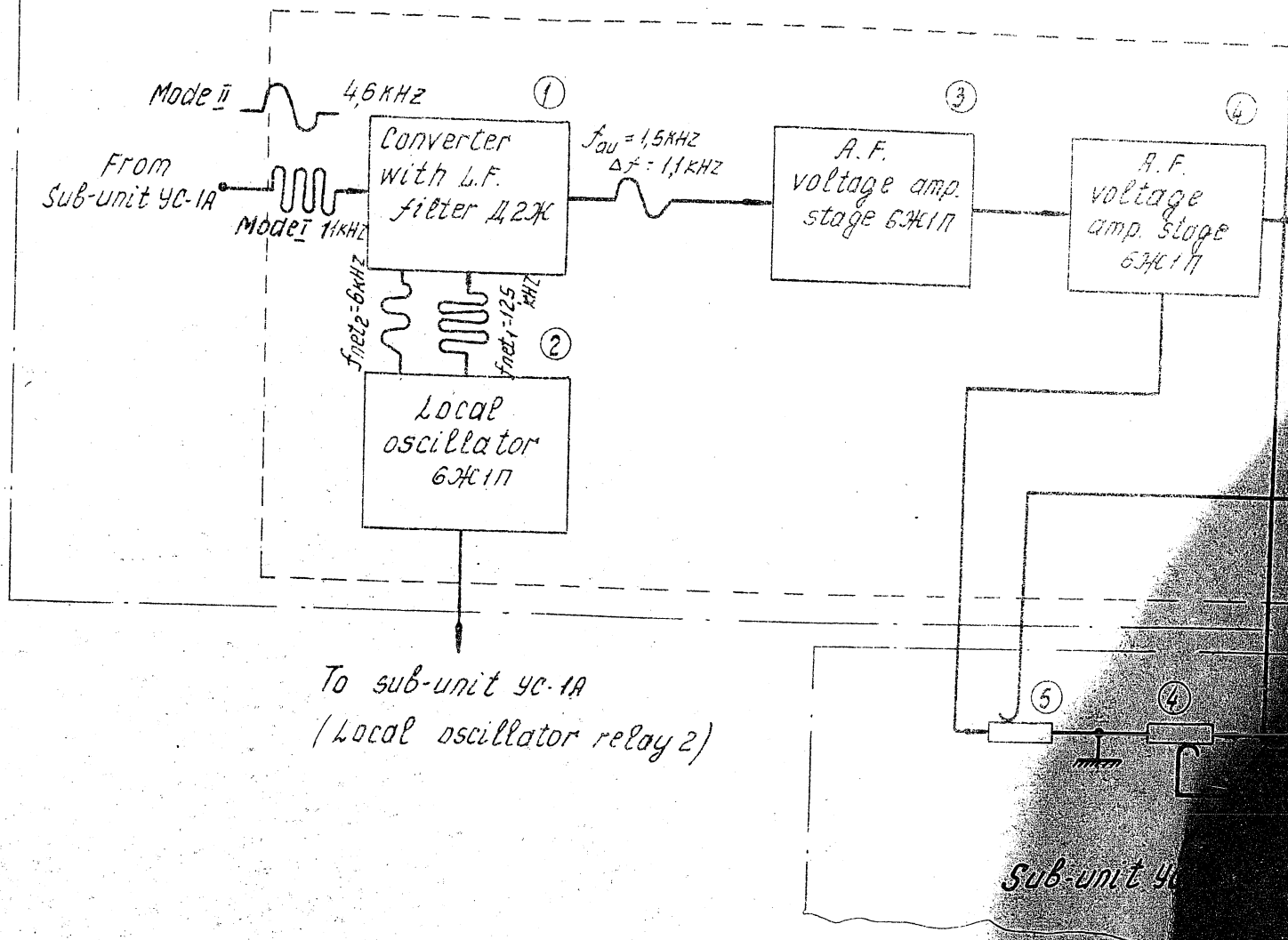
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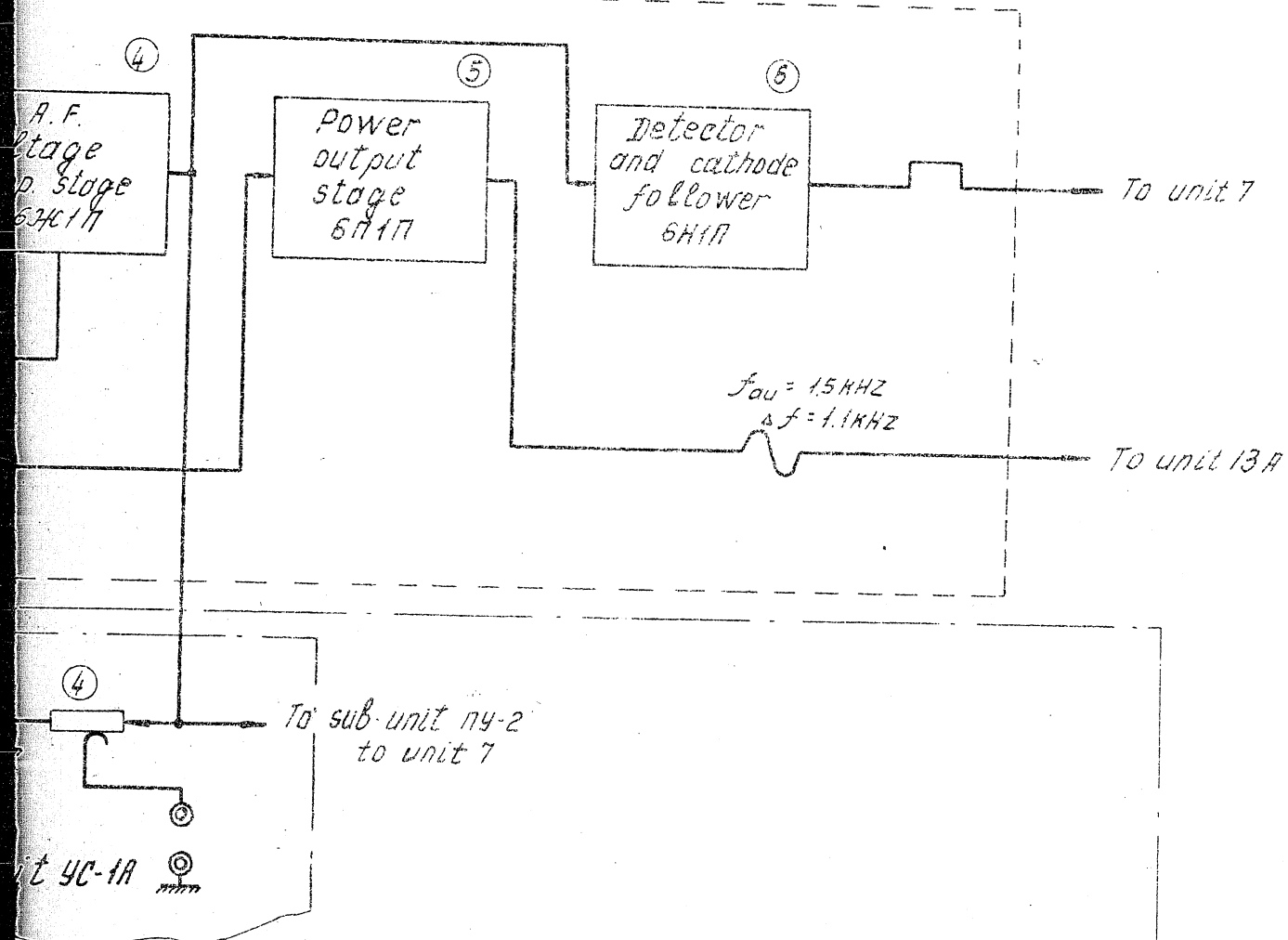
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Audio amplifier





To unit 7

To unit 13A

Sub-Unit 4C3

Functional Diagram

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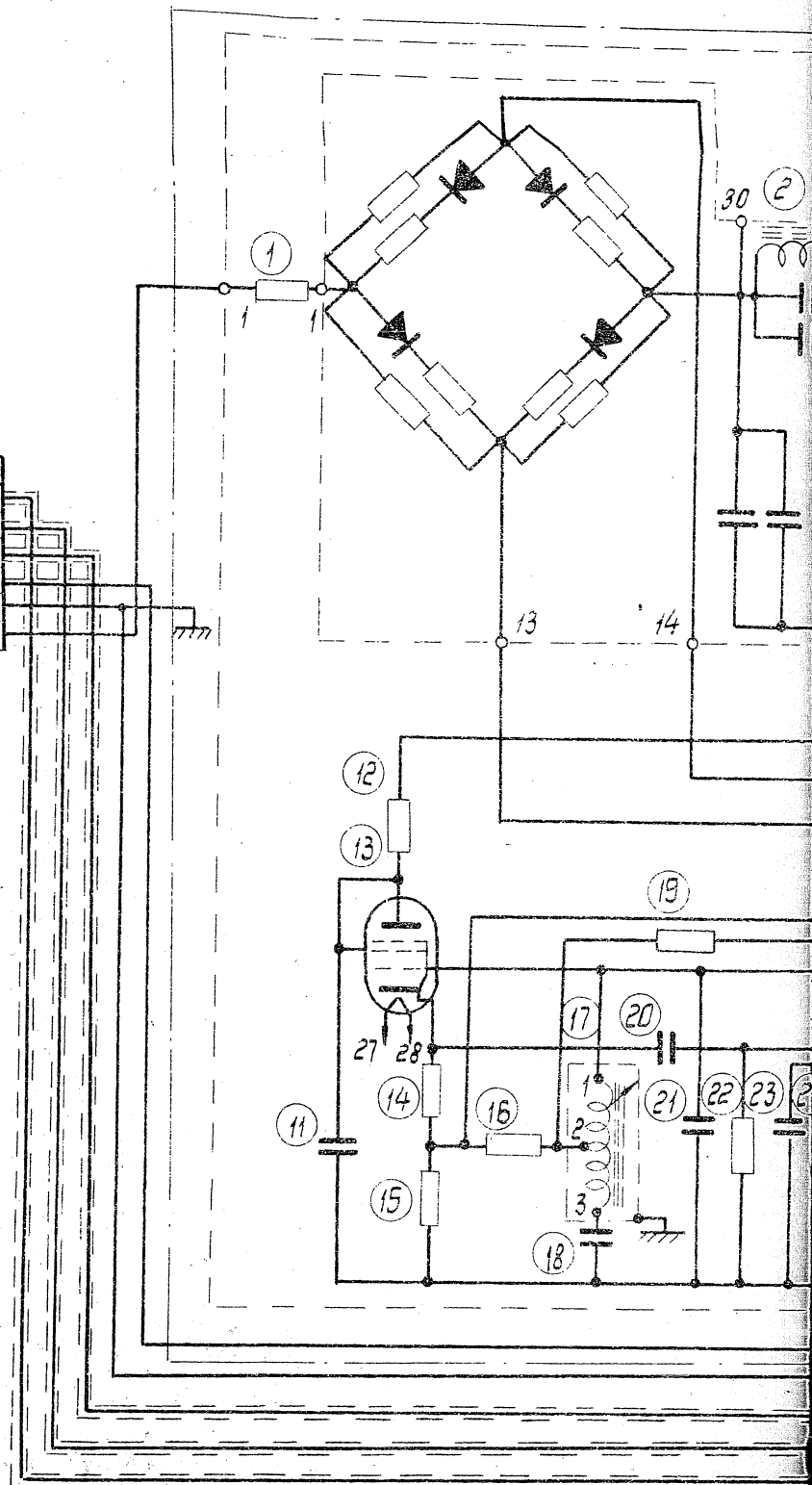
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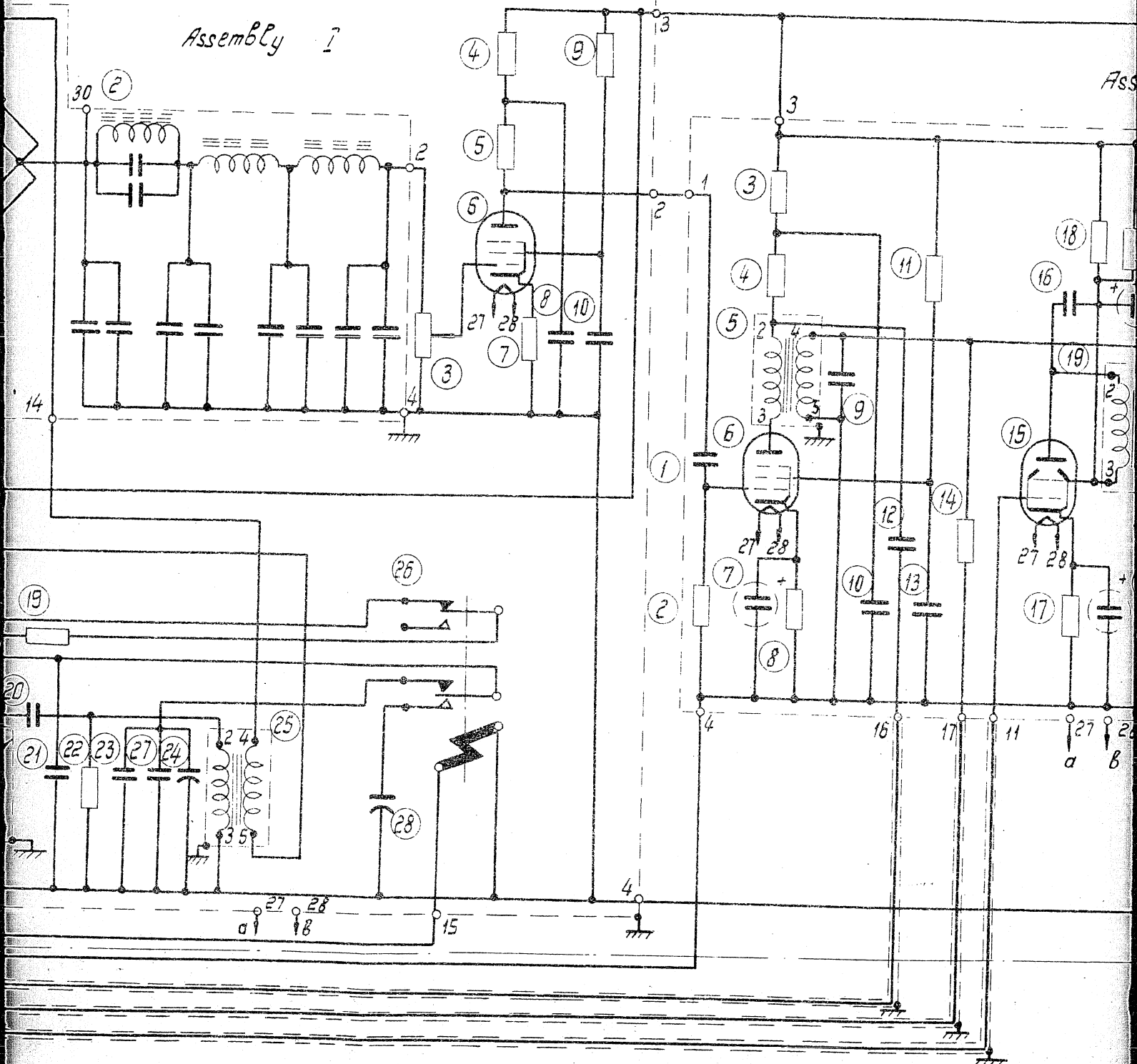
Via	Leads to	Applic	N _D
	Un. 4; S-UYCIA-15/7	Signal	1
"	" -15/5	"	2
"	" -15/10	"	3
"	" -14/5	+24V	4
"	" -15/4	0	5
"	" -15/3	Signal	6



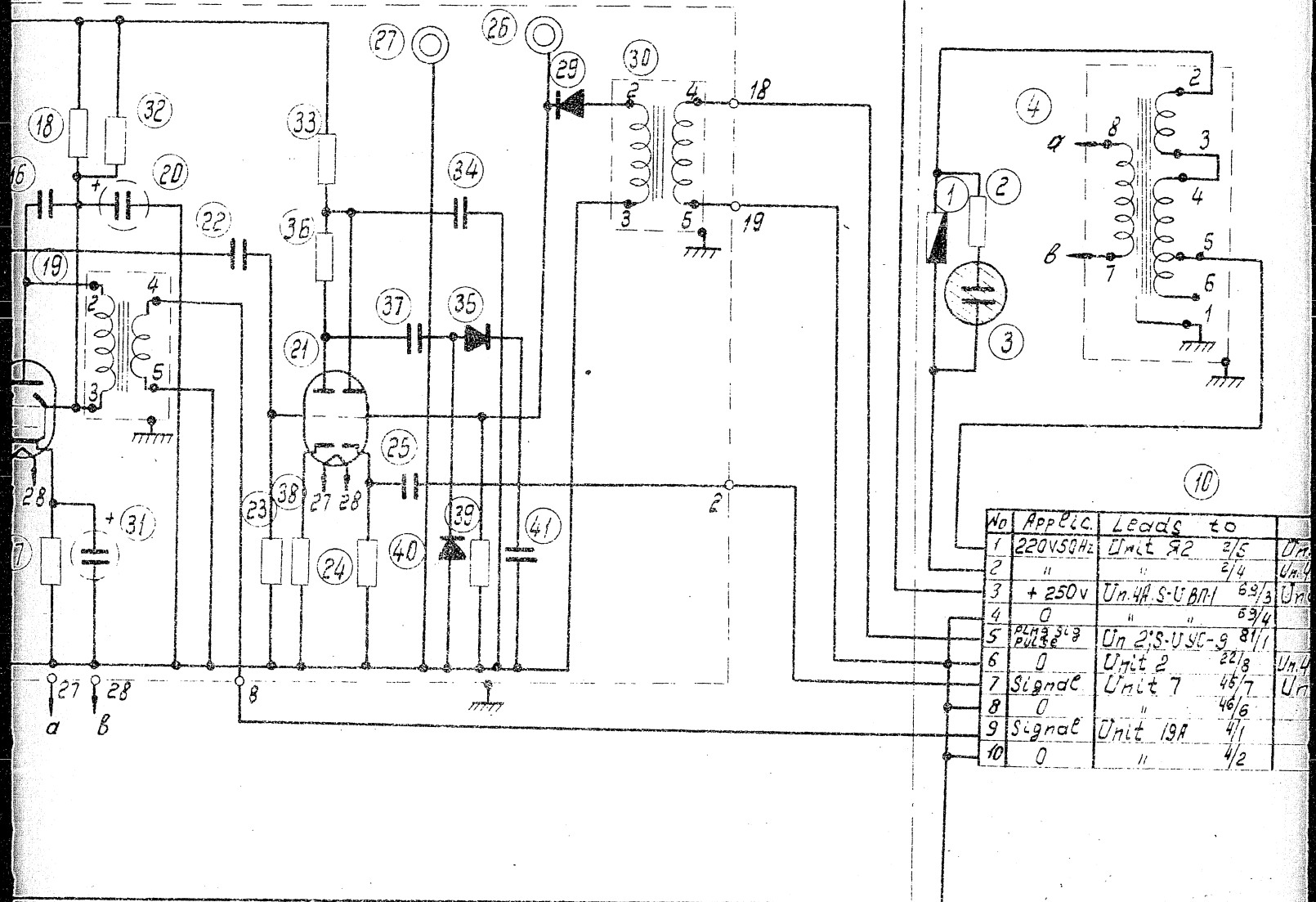
Audio amplifier

Assembly I

Ass

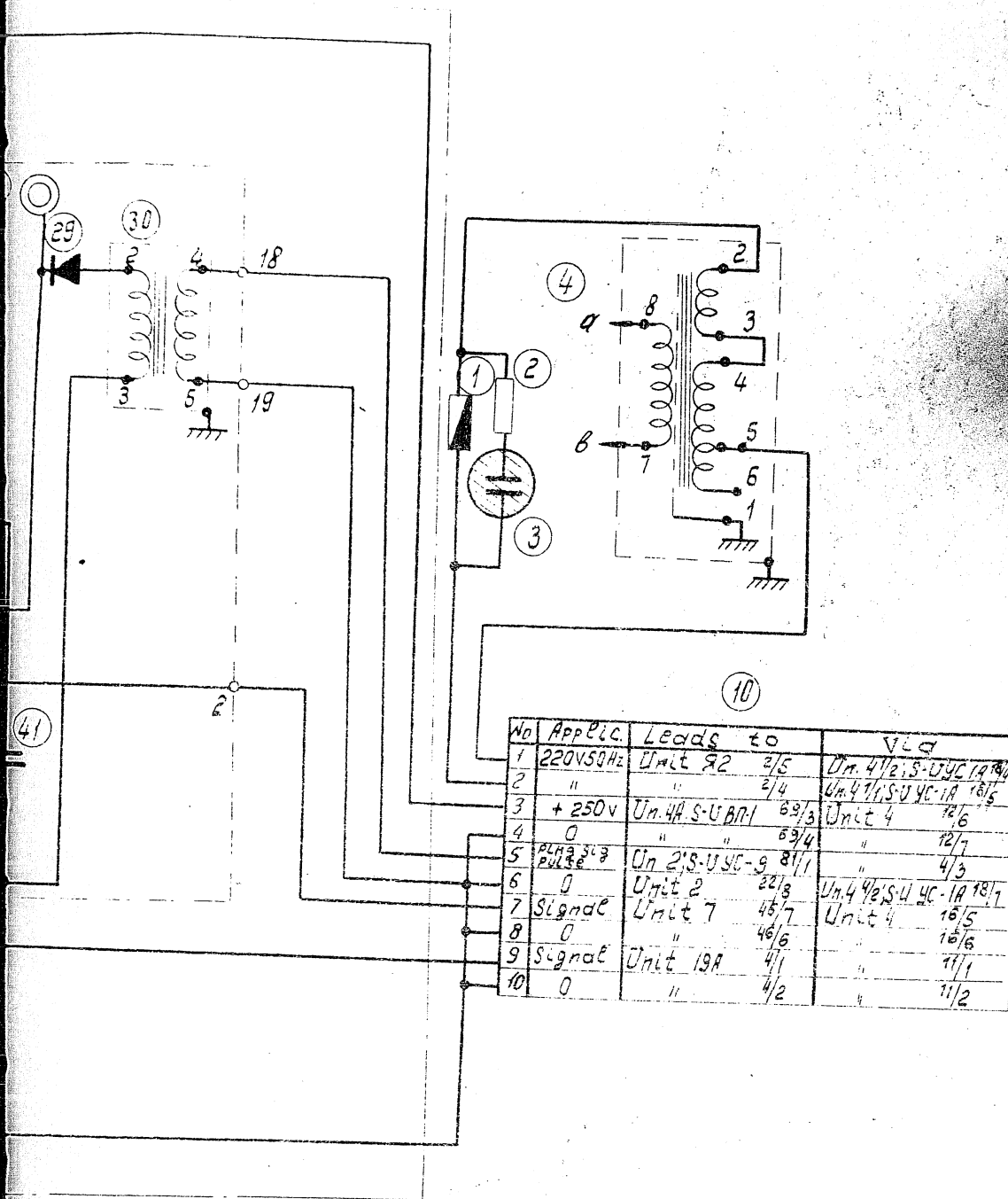


Assembly II



SUB-UNIT YC3
Elementary
circuit
diagram

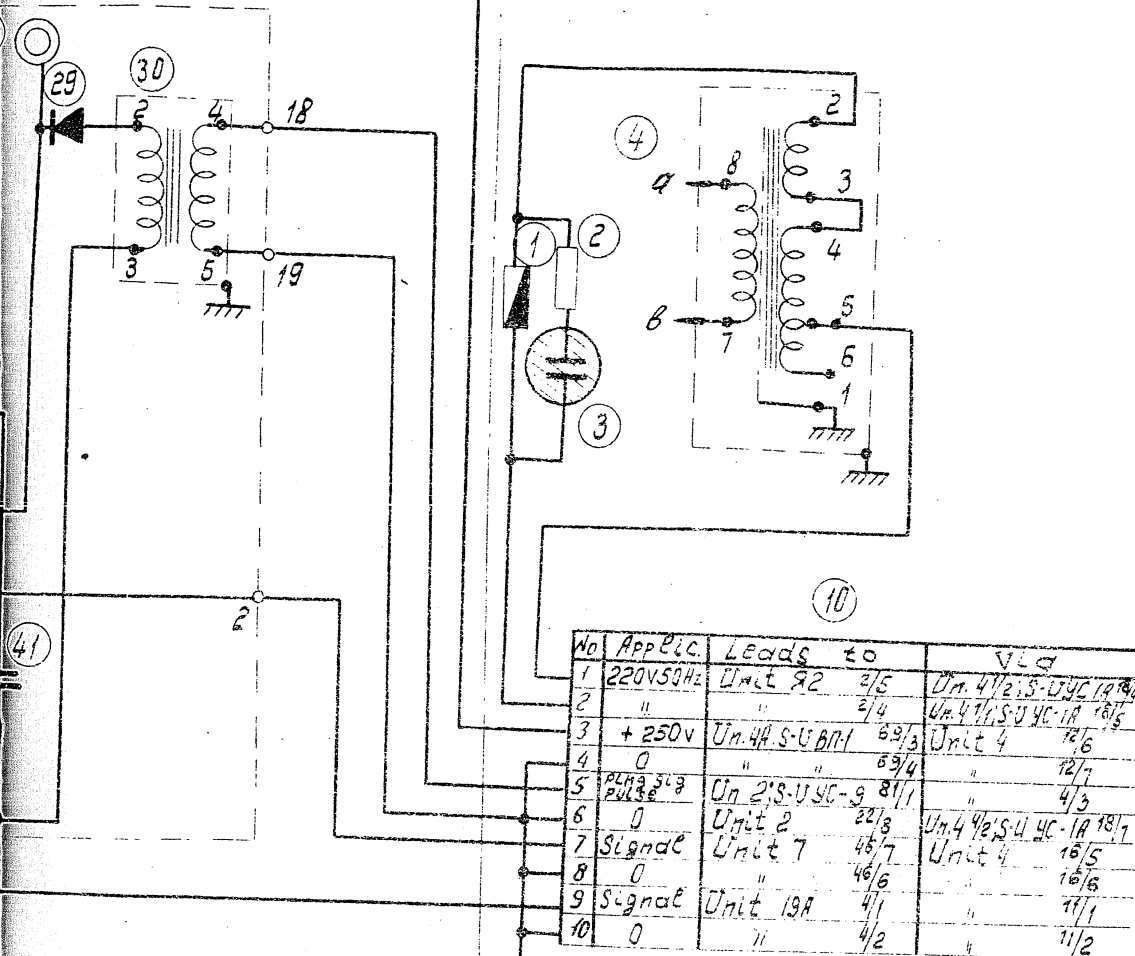
13H
Sheet



SUB-unit YC3
Elementary
circuit
diagram

17C2.039.200 Cx3

Sheet: 1 Sheets: 1



SUB-UNIT YC3
ELEMENTARY
CIRCUIT
DIAGRAM

17H2.039.200 [X]

Sheet: 1 Sheets: 1

Item No.	Standard, Spec. or Wvg. No.	Name, type	Value	No.	Remark
	JV2.039.0430n	Audio Amplifier Assembly I			
1	GOST 7113-66	Resistor MHT-0,5-8,2k $\pm$ 10%	8.2 kohms	1	
2	JV3.219.005	Converter		1	
3		Resistor GBO-2-10K $\pm$ 20% 06-5-20	10 kohms	1	
4	GOST 7113-66	Resistor MHT-0,5-10K $\pm$ 10%	10 kohms	1	
5	GOST 7113-66	Resistor MHT-0,5-39K $\pm$ 10%	39 kohms	1	
6		Tube 6AM-EB		1	
7	GOST 7113-66	Resistor MHT-0,5-200 $\pm$ 10%	200 ohms	1	
8		Capacitor MSPT-3-600-A-C, 1-II	0.1 mfd	1	
9	GOST 7113-66	Resistor MHT-0,5-200K $\pm$ 10%	200 kohms	1	
10, 11		Capacitor MSPT-3-600-A-C, 1-II	0.1 mfd	2	
12	GOST 7113-66	Resistor MHT-0,5-100K $\pm$ 10%	100 kohms	1	
13		Tube 6AM-EB		1	
14	GOST 7113-66	Resistor MHT-0,5-300 $\pm$ 10%	300 ohms	1	
15	GOST 7113-66	Resistor MHT-0,5-3K $\pm$ 10%	3 kohms	1	
16	GOST 7113-66	Resistor MHT-0,5-30K $\pm$ 10%	30 kohms	1	
17	JV4.756.024	Variable inductor		1	
18	GOST 6118-59	Capacitor KSF-M-200-0,1 $\pm$ 10%	0.1 mfd	1	
SUB-UNIT VC 3					
Parts List					
				JV2.039.200 II	
			Sheet: 1	Sheets: 4	

Item No.	Standard, Spec. or Pwg. No.	Name, type	Value	No.	Remark
19	GOST 7113-66	Resistor MHT-0,5-56K $\pm$ 10%	56 kohms	1	
20	GOST 6118-59	Capacitor KST-M-400-0,015 $\pm$ 10%	0.015 mfd	1	
21	GOST 11155-65	Capacitor CFM-1-250-F-430 $\pm$ 5%	430 pF	1	
22	GOST 7113-66	Resistor MHT-0,5-100K $\pm$ 10%	100 kohms	1	
23	GOST 11155-65	Capacitor CFM-3-500-F-820 $\pm$ 10%	820 pF	1	
24		Capacitor KDE-3-25/150	25/150 pF	1	
25	JW4.735.250n	Matching transformer		1	
26	JW4.523.620 01	Relay FRMD		1	
27	GOST 11155-65	Capacitor CFM-3-500-F-910 $\pm$ 5%	910 pF	1	
28		Capacitor KDE-25/150	25/150 pF	1	
	JW2.039.309	Assembly LT			
1		Capacitor MHTU-1-600-A-0,1-H	0.1 mfd	1	
2	GOST 7113-66	Resistor MHT-0,5-300K $\pm$ 10%	300 kohms	1	
3	GOST 7113-66	Resistor MHT-0,5-7,5K $\pm$ 10%	7.5 kohms	1	
4	GOST 7113-66	Resistor MHT-0,5-7,5K $\pm$ 10%	7.5 kohms	1	
5	JW4.735.1250n	Matching trans- former		1	
6		Tube 6A1H-B3		1	
7		Capacitor SPU-8-300/20-M	20 mfd	1	
8	GOST 7113-66	Resistor MHT-0,5-220 $\pm$ 10%	220 ohms	1	
9	GOST 11155-65	Capacitor CFM-2-250-620 $\pm$ 5%	620 pF	1	

JW2.039.200 A

Sheet: 2 Sheets: 4

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
10		Capacitor MBPH-3-500-A-0, 1-H	0.1 mfd	1	
11	GOST 7113-66	Resistor MHT-0,5-82K $\pm$ 10%	82 kohms	1	
12	GOST 11155-65	Capacitor GFA-3-500-F-3500 $\pm$ 10%	3900 pF	1	
13		Capacitor MBPH-3-500-A-0, 1-H	0.1 mfd	1	
14	GOST 7113-66	Resistor MHT-0,5-24K $\pm$ 10%	24 kohms	1	
15		Tube 6N18-56		1	
16	GOST 6118-59	Capacitor KMT-M-400-0,015 $\pm$ 10%	0.015 mfd	1	
17	GOST 7113-66	Resistor MHT-2-750 $\pm$ 10%	750 ohms	1	
18	GOST 7113-66	Resistor MHT-2-10K $\pm$ 10%	10 kohms	1	
19	ИВ4.735.1400н	Matching transformer		1	
20		Capacitor GFL-6-300/20 M	20 mfd	1	
21		Tube 6N18-12		1	
22	GOST 6118-59	Capacitor KMT-M-200-0,1 $\pm$ 10%	0.1 mfd	1	
23	GOST 7113-66	Resistor MHT-0,5-510K $\pm$ 10%	510 kohms	1	
24	GOST 7113-66	Resistor MHT-1-10K $\pm$ 10%	10 kohms	1	
25		Capacitor MBPH-1-200-A-10-H	10 mfd	1	
26, 27	К6.729.002 GB	Jack		2	
29		Diode Д 226		1	
30	ИВ4.735.1400н	Matching transformer		1	
31		Capacitor GFL-6-50/20 M	20 mfd	1	

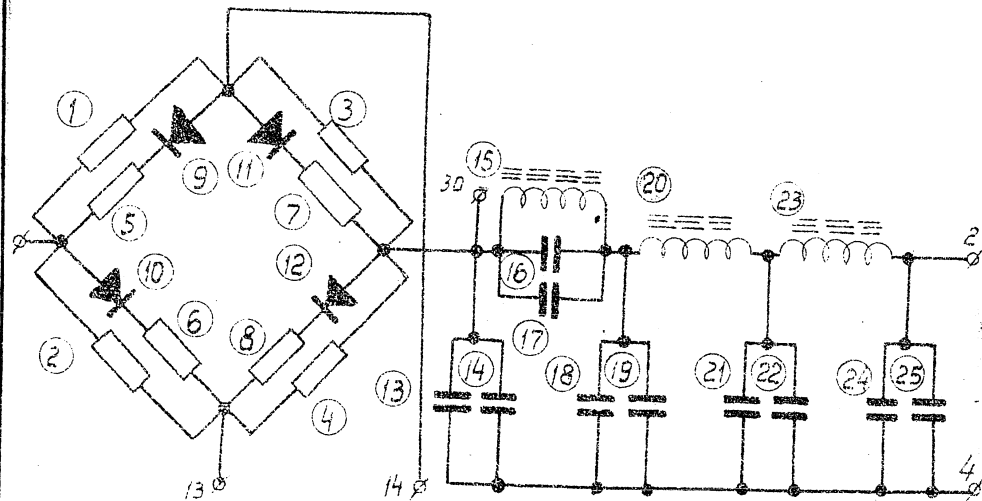
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Sheet: 3 Sheets: 4

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
32	GOST 7113-66	Resistor MPT-2-10K $\pm$ 10%	10 kohms	1	
33	GOST 7113-66	Resistor MPT-1-5,1K $\pm$ 10%	5.1 kohms	1	
34		Capacitor MBFO-1-200-1-II	1 mfd	1	
35		Diode A 226		1	
36	GOST 7113-66	Resistor MPT-1-15K $\pm$ 10%	15 kohms	1	
37		Capacitor MBFO-1-300-1-II	1 mfd	1	
38	GOST 7113-66	Resistor MPT-1-1,5K $\pm$ 10%	1.5 kohms	1	
39	GOST 7113-66	Resistor MPT-0,5-510K $\pm$ 10%	510 kohms	1	
40		Diode A 226		1	
41		Capacitor MBFO-1-160-3-II	2 mfd	1	
		Common Components			
1	GOST 5010-53	Fuse MB-45-2	2 A	1	
2	GOST 7113-66	Resistor MPT-2-20K $\pm$ 10%	20 kohms	1	
3		Lamp MB-3		1	
4	HALA.700.0050u	Transformer Tp 1632	B-type core 16x32	1	
9		Terminal block HC4-6	6-term.	1	
10		Terminal block HC4-10	10-term.	1	

RV2.039.200 II

Sheet: 4 Sheets: 4



Item No	Standard, Spec. or dwg No.	Name, type	Rating	Qty	Remark
1-4	02K0.467.003TY	Resistor MNT-05-36K $\pm 5\%$	36K	4	
5-8	02K0.467.003TY	Resistor MNT-05-12K $\pm 5\%$	12K	4	
9-12	3TY 06690-56	Diode A 22K		4	
13-14	02K0.461.003TY	Capacitor CRM-2-250-F-910-I	910 pF	2	tot. cap. 1821 pF $\pm 2\%$
15		Inductor T4-60 55x12 1 ring	2330 ± 3 031 dia	1	
16	NY2.062.230	Capacitor CRM-3-500-F-2200-I	2200 pF	1	4 kHz
17		Capacitor CRM-3-500-F-2000-I	2000 pF	1	
18	02K0.461.003TY	Capacitor CRM-4-500-F-5100-I	5100 pF	1	total capacitance
19	02K0.461.003TY	Capacitor CRM-2-250-F-1100-I	1100 pF	1	6200 pF $\pm 2\%$
20	NY4.779.029	Inductor T4-60 55x12 2 rings	2550 ± 5 025 dia	1	
21	02K0.461.003TY	Capacitor CRM-3-500-F-3600-I	3600 pF	1	total capacitance
22	02K0.461.003TY	Capacitor CRM-4-500-F-5100-I	5100 pF	1	8756 pF $\pm 2\%$
23	NY4.779.029	Inductor T4-60 55x12 2 rings	2550 ± 5 025 dia	1	
24, 25	02K0.461.003TY	Capacitor CRM-3-500-F-2200-I	2200 pF	2	tot. cap. 4378 pF $\pm 2\%$

CONVERTER
Circuit Diagram

NY3.219.008C x3

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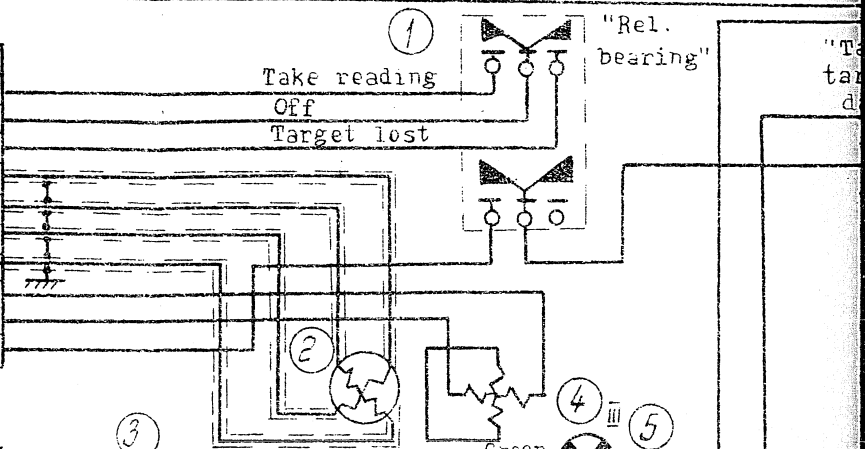
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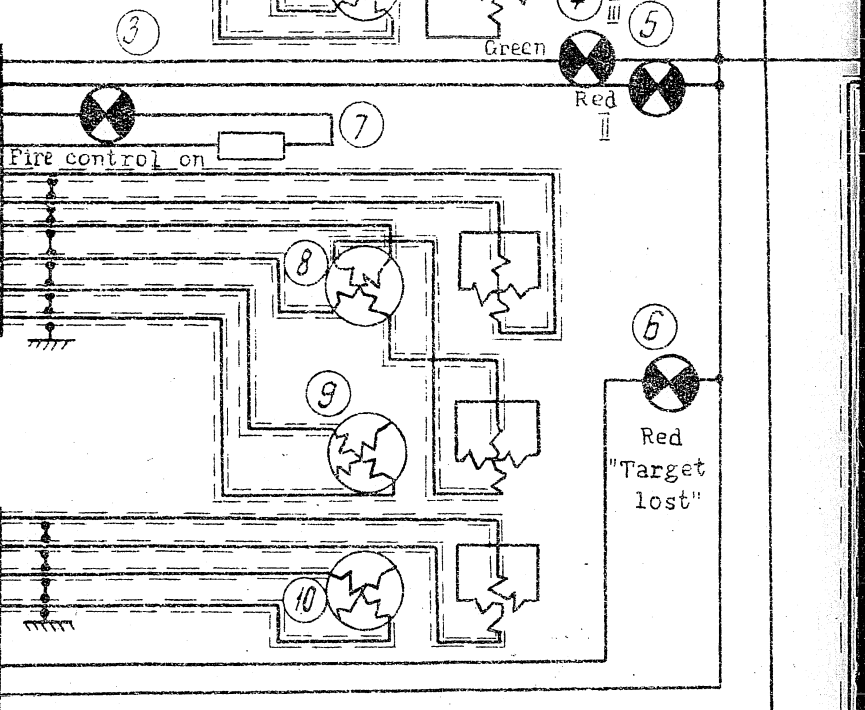
67

Via	Leads to	Applicat.	No
Unit 6/1	Fire contr. syst.	Take readg.	1
" 6/2	"	+110V	2
" 6/3	"	Target lost	3
" 6/4	"	Signal Brg(P ₁)	4
" 5/6	"	" (P ₃)	5
" 5/7	"	" (P ₂)	6
" 5/8	"	" (P ₄)	7
" 17/7	"	Exc. 110V, 500Hz	8
" 17/8	"	Exc. 110V, 500Hz	9
" 10/9	Unit 11 6/1	Target spotted	10



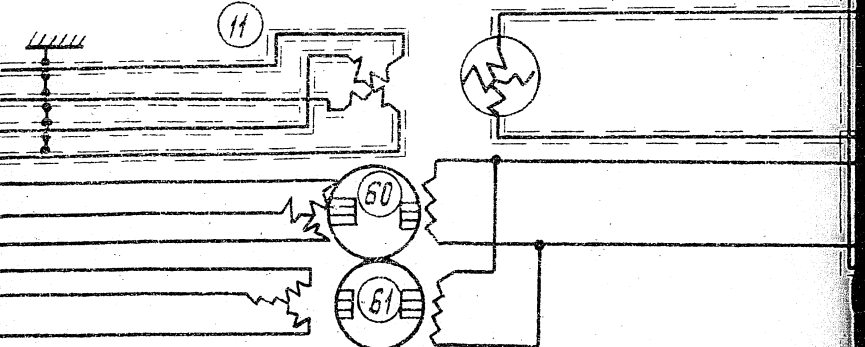
68

Unit 4 9/10	Sonar MP-312N	Scale R III	3
" 9/9	"	Scale R II	4
" 5/9	Fire contr. syst.	Signal	1
" 5/10	"	-110V	2
" 3/3	4A; PY2 30/1	Sign. dc PK	5
" 3/4	" 30/4	" " "	6
" 7/1	Vertical gyro	Sign. X ₀ PK (P ₃)	7
" 7/2	"	" " (P ₄)	8
" 7/3	"	Sign. Y ₀ PK (P ₃)	9
" 7/4	"	" " (P ₄)	10



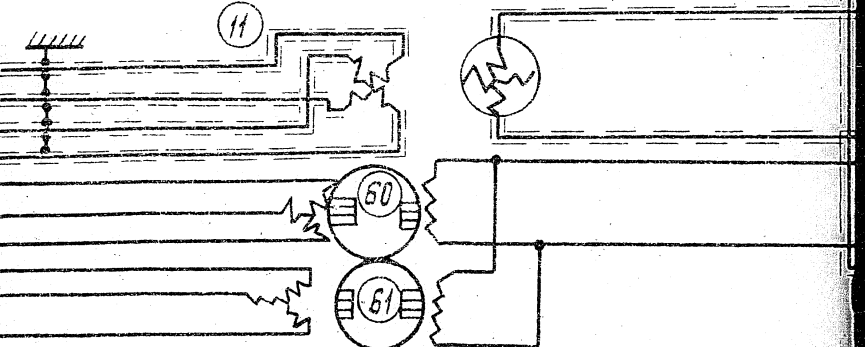
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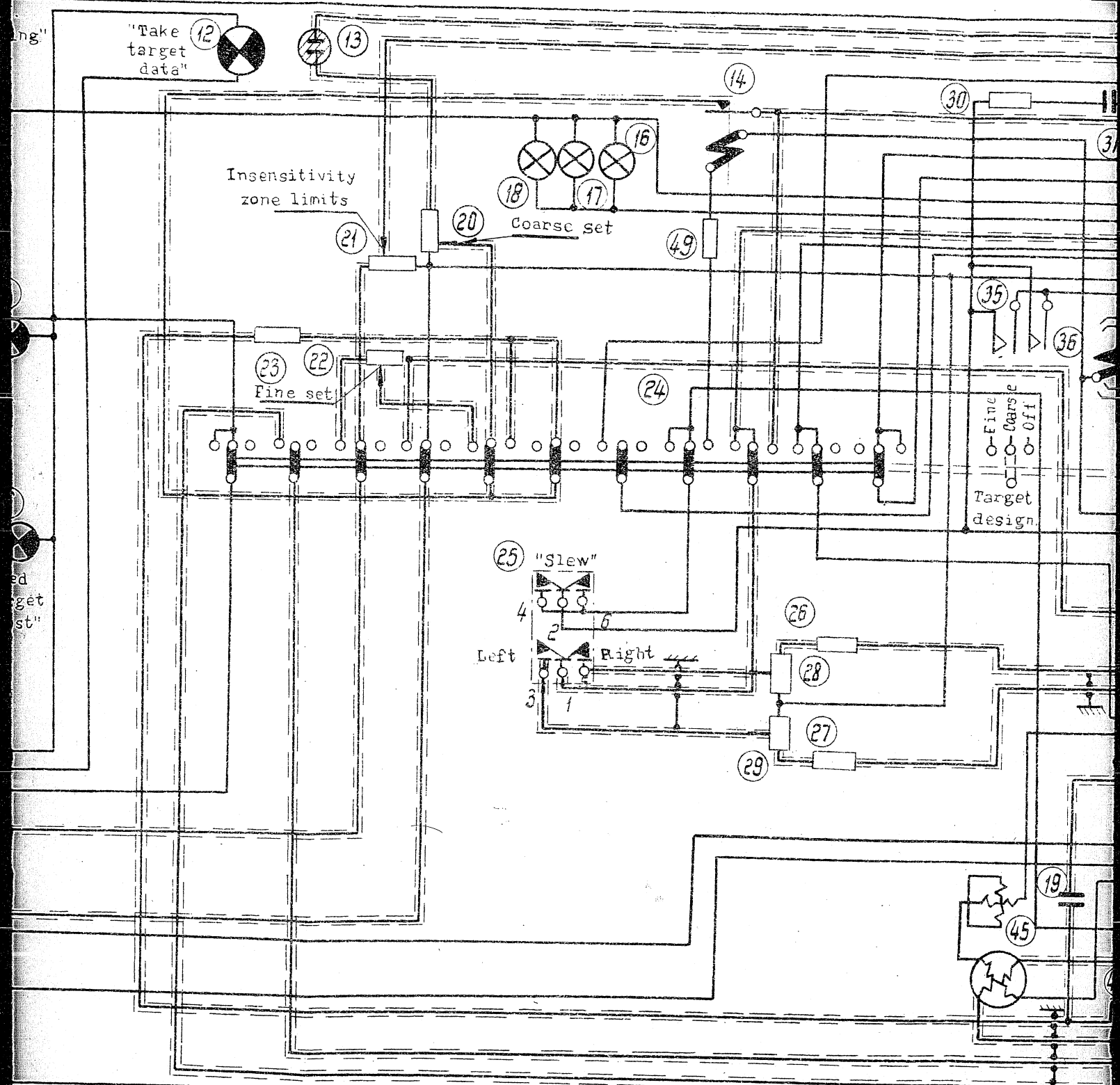
Unit 4 7/5	Vertical gyro	Sign. X ₀ PK (C ₁)	1
" 7/6	"	" (C ₂)	2
" 15/1	Un. 1 cab. 4 con. 7	" (P ₃)	3
" 15/2	" cab. 4 con. 2	" (P ₄)	4
"	"	"	5
" 9/8	Sonar MP-312N	Target lost	6
" 9/7	"	26 VAC	7
" 9/6	"	Take target des.	8
" 9/5	"	Target des. taken	9
"	"	"	10

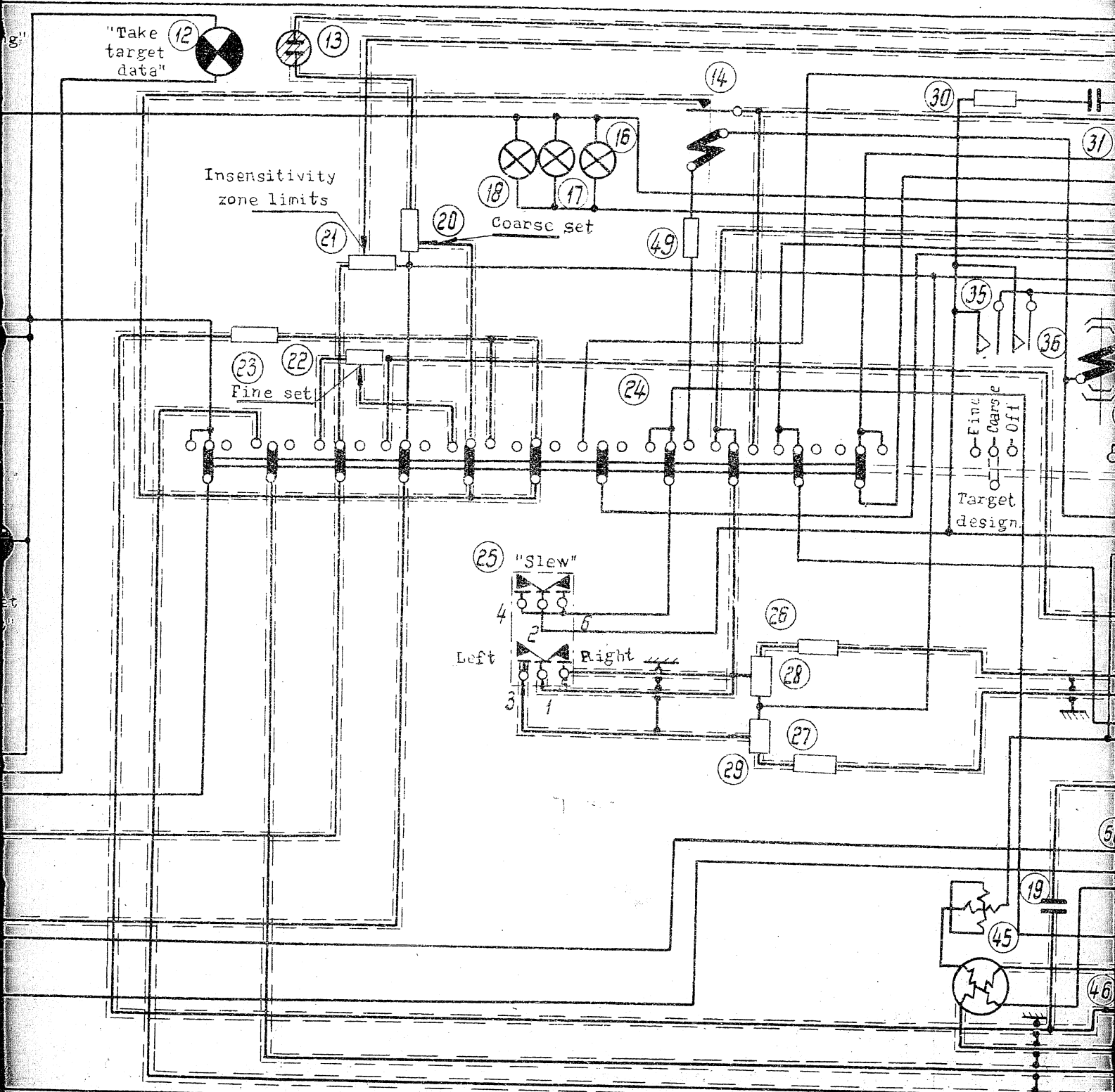


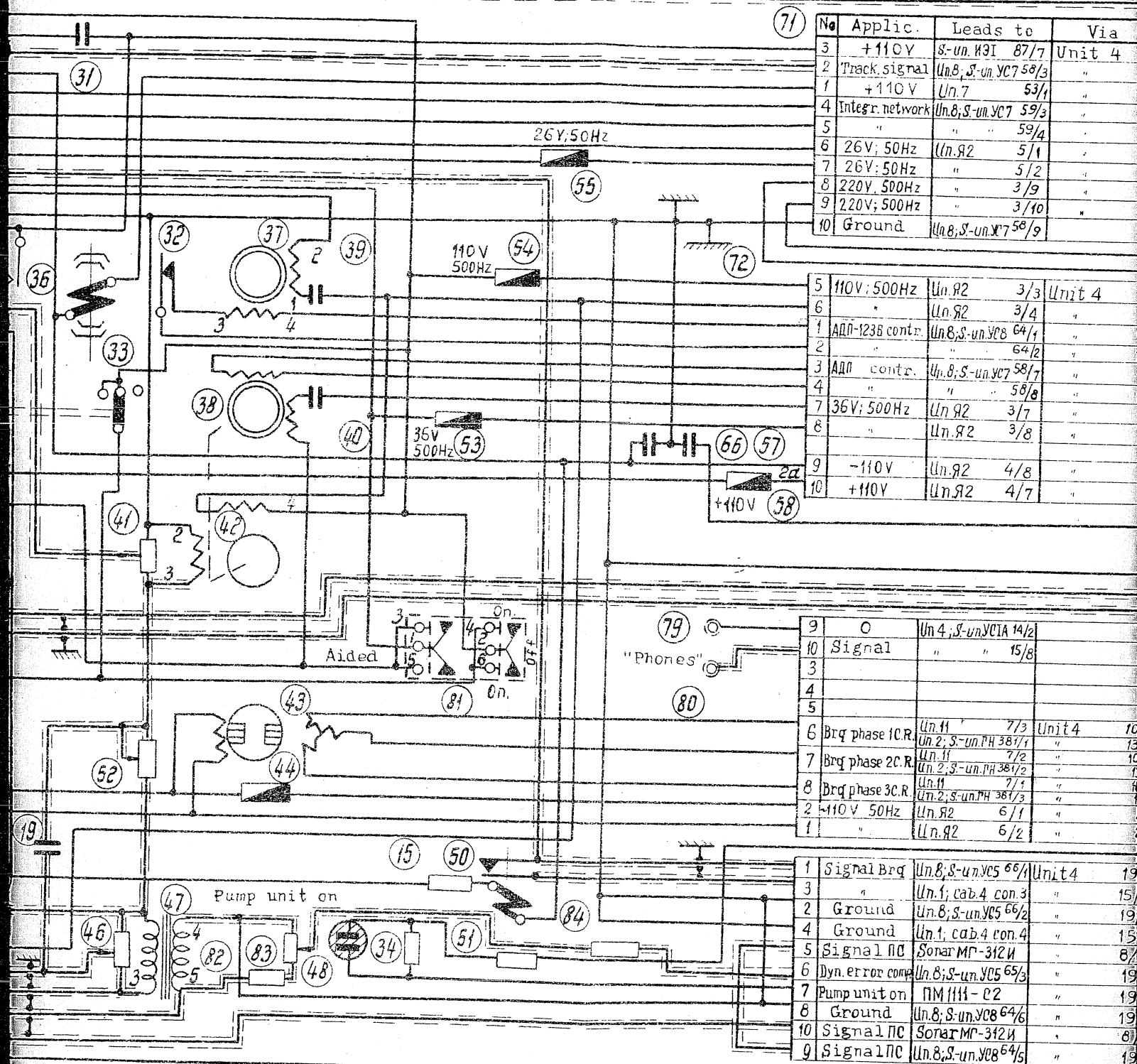
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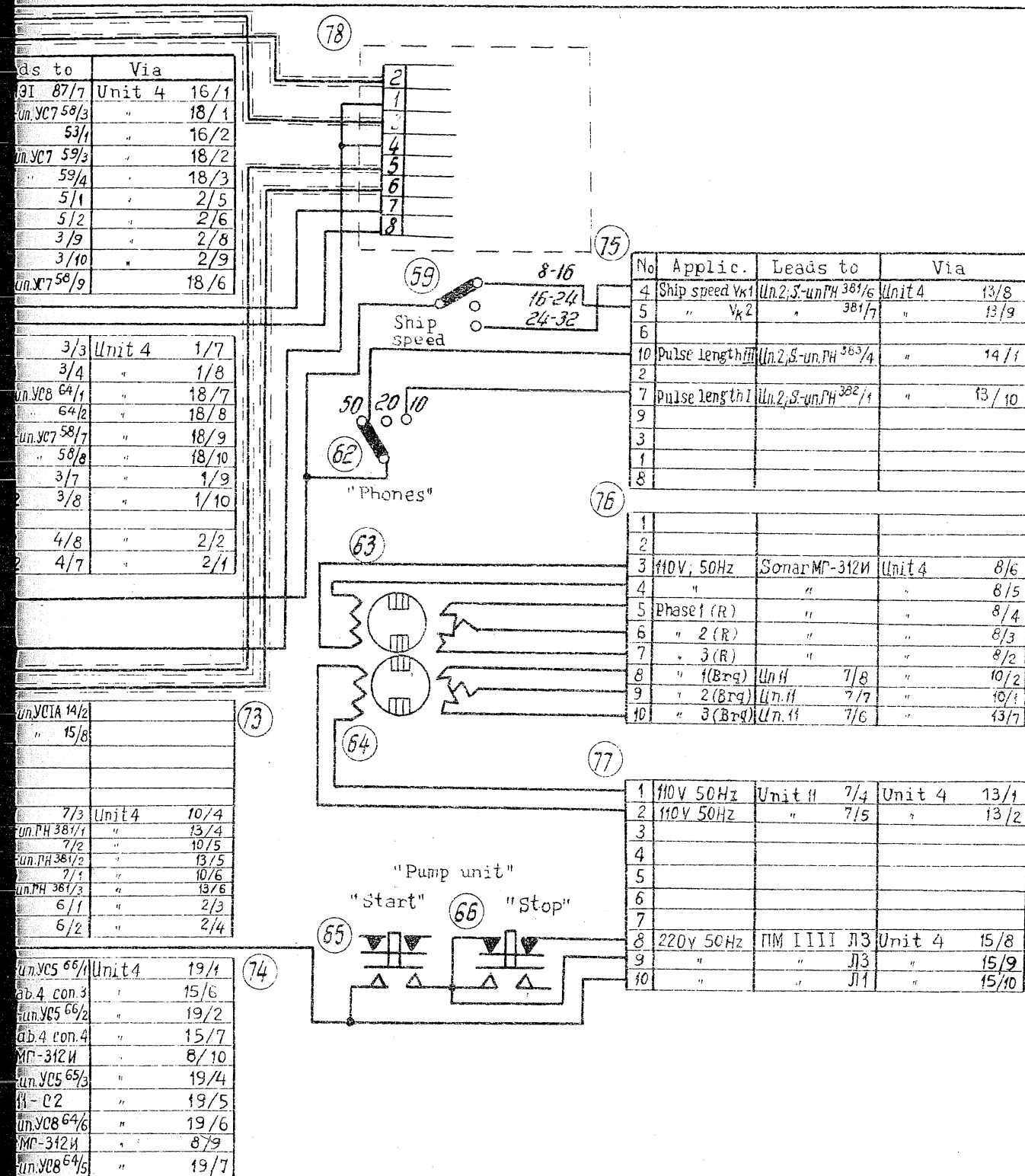
Unit 4 9/4	Sonar MP-312N	Targ. des. sig (C ₁)	1
" 9/3	"	" (C ₂)	2
" 9/2	"	" (C ₃)	3
" 9/1	"	" (C ₄)	4
" 15/3	Un. 1 cab. 1 con. 5	11VPH, phase 1	5
" 15/4	" cab. 1 con. 4	" " 2	6
" 15/5	" cab. 1 con. 3	" " 3	7
" 20/8	" cab. 4 con. 6	11VPH, phase 1 F.R.	8
" 20/9	" cab. 4 con. 5	" " 2 F.R.	9
" 20/10	" cab. 2 con. 6	" " 3 F.R.	10











	Leads to	Via
Vk1	Un.2, S-un PH 381/6	Unit 4 13/8
K2	" 381/7	" 13/9
h III	Un.2, S-un PH 363/4	" 14/1
h1	Un.2, S-un PH 382/1	" 13/10

	Sonar MR-312N	Unit 4 8/6
	"	" 8/5
	"	" 8/4
	"	" 8/3
	"	" 8/2
U	Un H 7/8	" 10/2
U	Un H 7/7	" 10/1
U	Un H 7/6	" 13/7

Unit #	7/4	Unit 4	13/1
"	7/5	"	13/2
PM IIII	Л3	Unit 4	15/8
"	Л3	"	15/9
"	Л1	"	15/10

For Parts List, see ЛУ2.338.004 Д.

Sub - unit ПУ1
Circuit Diagram

142.338.004 CX3

Sheet	Sheets

Item No.	Standard, Spec. or DWG. No.	Name, type	Value	No.	Remark
1	BT3.602.003 Cn	Double-pole switch		1	
2	W6.713.229 CB	Rotary transformer CKRT	110 V 500 Hz	1	01.1
3-6		Lamp MR-17	26 V 0.45 A	4	
7	GOST 6513-66	Resistor I H08-15-750-10%	750 ohms	1	
8	W6.713.229 CB	Rotary transformer CKRT	110 V 500 Hz	1	01.1
9-10	W6.713.229 CB	Rotary transformer CKRT	110 V 500 Hz	2	
11	W6.713.229 CB	Rotary transformer CKRT	110 V 500 Hz	1	01.1
12		Lamp MR-17	26 V 0.45 A	1	
13		Lamp MR-3		1	
14		Relay P30-6 cert. P20.452.122	24 V	1	
15	GOST 7113-66	Resistor MRT-1-3,6K-10%	3.6 kohms	1	
16-18		Lamp MR-17	26 V 0.45 A	3	
19		Capacitor MBP-2-600-A-0,1-11	0.1 mfd	1	
20		Resistor CHO-1-220K-20% OC-3-20	220 kohms	1	
21-22		Resistor CHO-2-10K-20% OC-3-20	10 kohms	2	
23	GOST 7113-66	Resistor MRT-1-20K-10%	20 kohms	1	
24		Switch 3H12H-10		1	
25	BT3.602.012 Cn	Double-pole switch		1	

SUB-unit IV 1
Parts List

W2.338.004 A

Sheet: 1

Sheets: 3

Item No.	Standard, Spec. or Wdg. No.	Name, type	Value	No.	Remark
26, 27	GOST 7113-66	Resistor MHT-1-62K $\pm$ 10%	62 kohms	2	
28, 29		Resistor CHO-2- 1-2,2K $\pm$ 20% OC-3-20	2.2 kohms	2	
30	GOST 6513-66	Resistor T 70B- 15-100 $\pm$ 10%	100 ohms	3	
31	GOST 6118-59	Capacitor KMP-MH- 25-1000-0,1 $\pm$ 10%	0.1 mfd	1	
32	IV6.620.048	Contact assembly		1	
33	AL3.256.0000n	Magnetic clutch	0.1 A 110 V	1	
34	GOST 7113-66	Resistor MHT-1-51K $\pm$ 10%	51 kohms	1	
35, 36	IV6.620.058	Contact assembly		2	
37		Electric motor AHE-12BB	110 V 500 Hz	1	
38		Electric motor AHE-36BA	36 V 500 Hz	1	
39	GOST 6118-59	Capacitor KMP-MH- 25-200-0,5 $\pm$ 10%	0.5 mfd 200 V	1	
40		Capacitor MHT-1- 200-1-15-J	15 mfd 200 V	1	
41		Resistor CHO-2- 22K $\pm$ 20% OC-3-20	22 kohms	1	
42		Tachometer generator AT-28A	110 V 500 Hz	1	
43		Selsyn SE-501 A	110 V 50Hz	1	01.I
44	GOST 5010-53	Fuse Hn-45-2	2 A	1	
45	IV6.713.277 CB	Rotary transformer	110 V 500 Hz	1	01.I
46		Resistor CHO-2- 1-10K $\pm$ 20% OC-3-20	10 kohms	1	
47	IV4.719.003CH	Transformer, E-type core 12x20		1	

IV2.338.004 II

Sheet: 2 Sheets: 3

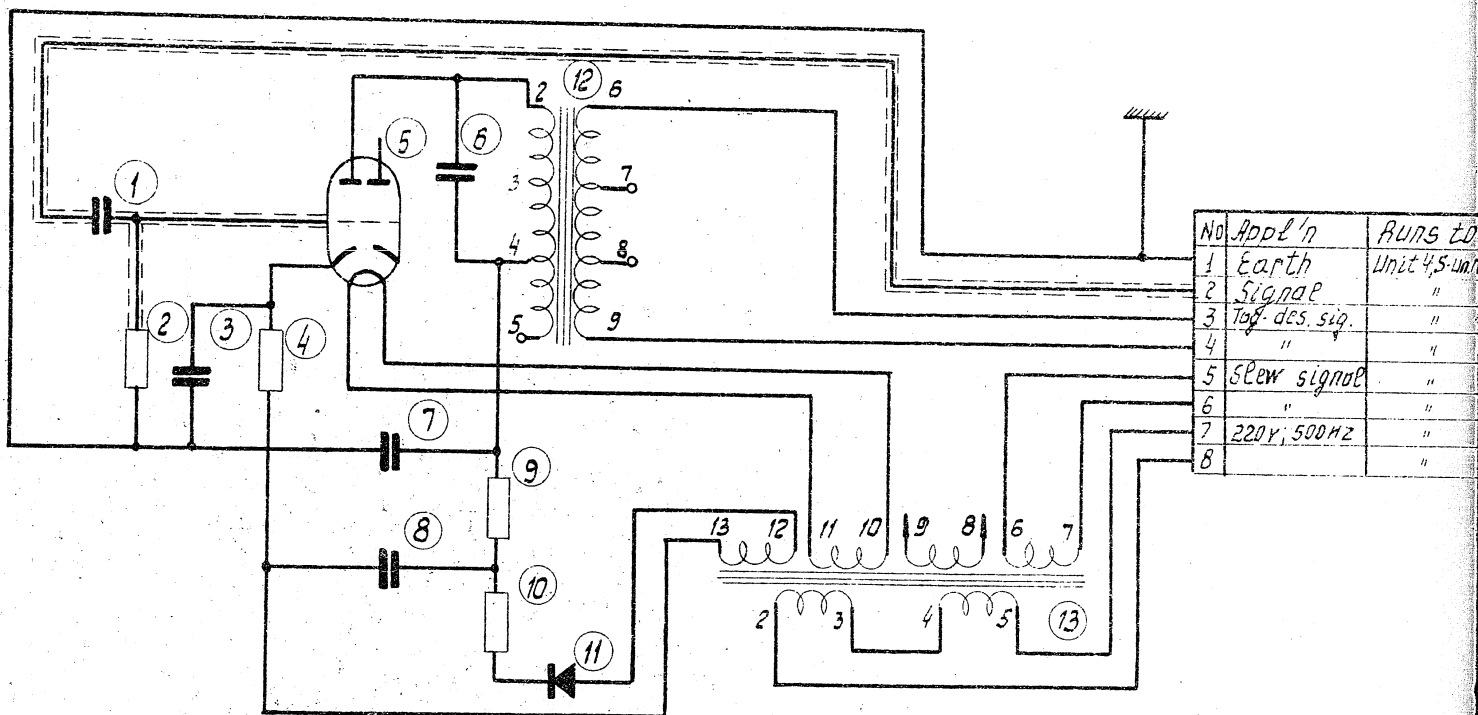
Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
48		Lamp MH-3		1	
49	GOST 7113-66	Resistor MHT-2-3,5K $\pm$ 10%	3.6 kohms	1	
50		Relay POC-5 cert. POC-5.122	24 V	1	
51	GOST 7113-66	Resistor MHT-1-100K $\pm$ 10%	100 kohms	1	
52		Resistor GHO-2- 1-1K $\pm$ 20% OC-2-20	1 kohm	1	
53	GOST 5010-53	Fuse HK-45-3	3 A	1	
54, 55	GOST 5010-53	Fuse HK-45-1	1 A	2	
56, 57		Capacitor KBN-C- 125-20-0,47 $\pm$ 20%	0.47 mfd	2	
58	GOST 5010-53	Fuse HK-45-2	2 A	2	
59		Switch 3H3H-E		1	
60		Selsyn SC-404 A	110 V 50 Hz	1	Cl.12
61		Selsyn SC-404 A	110 V 50 Hz	1	Cl.1
62		Switch 3H3H-K		1	
63, 64		Selsyn SC-404 A	110V50 Hz	2	Cl.11
65, 66	B65.141.030	Button		2	
67- 77		Terminal block HO4-10	6 A 500 V	11	
78	W2.002.060	Electronic attach- ment		1	
79, 80	BO.175.270	Jack		2	
81	BT3.602.008 Cn	Double-pole switch		1	
82	GOST 7113-66	Resistor MHT-1-680K $\pm$ 10%	680 kohms	1	
83		Potentiometer DH3-11-100 $\pm$ 5%	100 ohms	1	
84	GOST 7113-66	Resistor MHT-1-100 $\pm$ 10%	100 ohms	1	

W2.338.004 II

Sheet: 3 Sheets: 3

STAT

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Parts List

Ckt. Ref.	Standard Spec. Dwg. No.	Description and type	Rating	Q-ty	Rem's	Mod'n
1	0240.462.02174	Capacitor K5T-MN-2B-1000-005-Π	005μF, 1000V	1		
2	0240.467.00374	Resistor MAT-05-20KOM ± 10%	0.5W, 20K	1		
3	0240.462.02274	Capacitor M5T-2-200-A-10-Π	10μF, 200V	1		
4	0240.467.00374	Resistor MAT-05-6200M ± 10%	0.5W, 6200M	1		
5	TC3.301.00674	Tube 6H17		1		
6	0240.462.02174	Capacitor K5T-MN-2B-1000-005-Π	005μF, 1000V	1		
7-8	0240.462.02274	Capacitor M5T-2-400-A-2-Π	2μF, 400V	2		
9	0240.467.00374	Resistor MAT-2-10KOM ± 10%	2W, 10K	1		
10	0240.467.00374	Resistor MAT-2-3KOM ± 10%	2W, 3K	1		
11	0240.321.011474	Selenium rectifier 157A 16A		1		
12	144.735.127	Transformer		1		
13	144.719.044	Transformer		1		
14	HA3-656.006cn	Terminal strip	5A, 600V	1		

14

2	RUNS TO
2	Unit 45-44741
2	"
2	"
2	"
2	"
2	"
2	"
2	"
2	"

ELECTRONIC
ATTACHMENT

Circuit Diagram

142002.060Ck3

Sheet 1

Sheet 1

STAT

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①

Via	Leads to	Application	Term No
Unit A2	2/6	220V, 50HZ	1
A2	2/7	220V, 50HZ	2
A2	1/9	220V, 50HZ	3
A2	1/10	220V, 50HZ	4
A2	3/5	110V, 500HZ	5
A2	3/6	110V, 500HZ	6
A2	6/3	110V, 500HZ	7
A2	6/4	110V, 500HZ	8
A2	4/9	+110V	9
A2	4/10	-110V	10

②

A2	5/3	26V 50HZ	1
A2	5/4	26V 50HZ	2
			3
4A	1/9	+110V	4
4A	1/10	-110V	5
4A	1/2	220V, 50HZ	6
4A	1/1	"	7
			8
			9
			10

③

Unit 4	Sub-unit	Signal	Term No
3/3	Unit 4; Sub-unit 68/5	Signal 0 NK	1
3/4	" " 68/6	Signal 0 NK	2
3/2	Unit 4; Sub-unit 15/9	Body	3
3/1	" " 15/6	Signal	4
11/8	Unit 4; Sub-unit 87/1	Trig pulse	5
11/9	" " 87/2	Synchron.	6
11/3	" " 87/3	"	7
11/4	" " 87/4	"	8
11/5	" " 88/5	Body	9
			10

④

Unit 4	Sub-unit	Signal	Term No
11/7	Unit 4; Sub-unit 89/3	+50V	1
11/10	" " 90/4	+250V	2
12/2	" " 90/6	-105V	3
12/3	" " 90/1	+250V	4
12/4	" " 90/2	+250V	5
	" " 90/3	+250V	6
	" " 90/4	+250V	7
	" " 90/5	+250V	8
	" " 90/6	+250V	9
	" " 90/7	+250V	10

⑤

Application	Leads to	Unit 13	Term No
1 signal	Unit 13	17/1	1
2 signal	"	17/2	2
3 signal	"	17/3	3
4 signal	"	17/4	4
5 signal	"	17/5	5

16

25

Pin	Application	Leads to
1	Signal	Unit 13 17/1
2	Signal	" 17/2
3	Signal	" 17/3
4	Signal	" 17/4
5	Signal	Sub-un. U32 95/7
6	Signal	" 904 5/7
7	Trig. pulse	Unit 7 48/1
8	Trig. pulse	Sub-un. U32 97/1
9	Trig. pulse	Sub-un. U32 97/4
10		

23

1	Ping. sig. pulse	Unit 2, Sub-un. 909 B1/1
2	220V, 50HZ	" 921 2/6
3	"	" 921 2/7
4	Body	" 4A 9/10
5	St. loc. osc. fr	" 2, Sub-un. 17/382/8
6	0	" 2 22/8

24

1	+250V	Sub-un. B02-B2 59/1
2	-110V	" 302-52 56/5
3	0	" 802-B2 56/2
4	Op. fr. calib. volt.	Unit 2, Sub-un. 17/383/6
5		
6		
7		
8	Out. signal	Sub-un. 904 6/3
9	0	" 904 6/2
10	Out. signal	" 904 6/1

19

6a

1	Signal	Sub-un. 902 24/10
2	0	" 902 24/9
3	Signal	" 902 24/8
4	Body	Unit 4A 9/10

5a

1	+250V	Sub-un. B02 B1 40/1
2	0	" 802 B1 40/2
3	220V, 50HZ	" 17/2 31/9
4	0	" U32 96/5
5	Signal	" U32 95/5
6	"	" U32 95/6
7	"	" 902 25/6
8	220V, 50HZ	" 17/2 31/10
9	220V, 50HZ	Unit 92 2/6
10	220V, 50HZ	" 92 2/7

902

904

20

U3-2

95

96

97

98

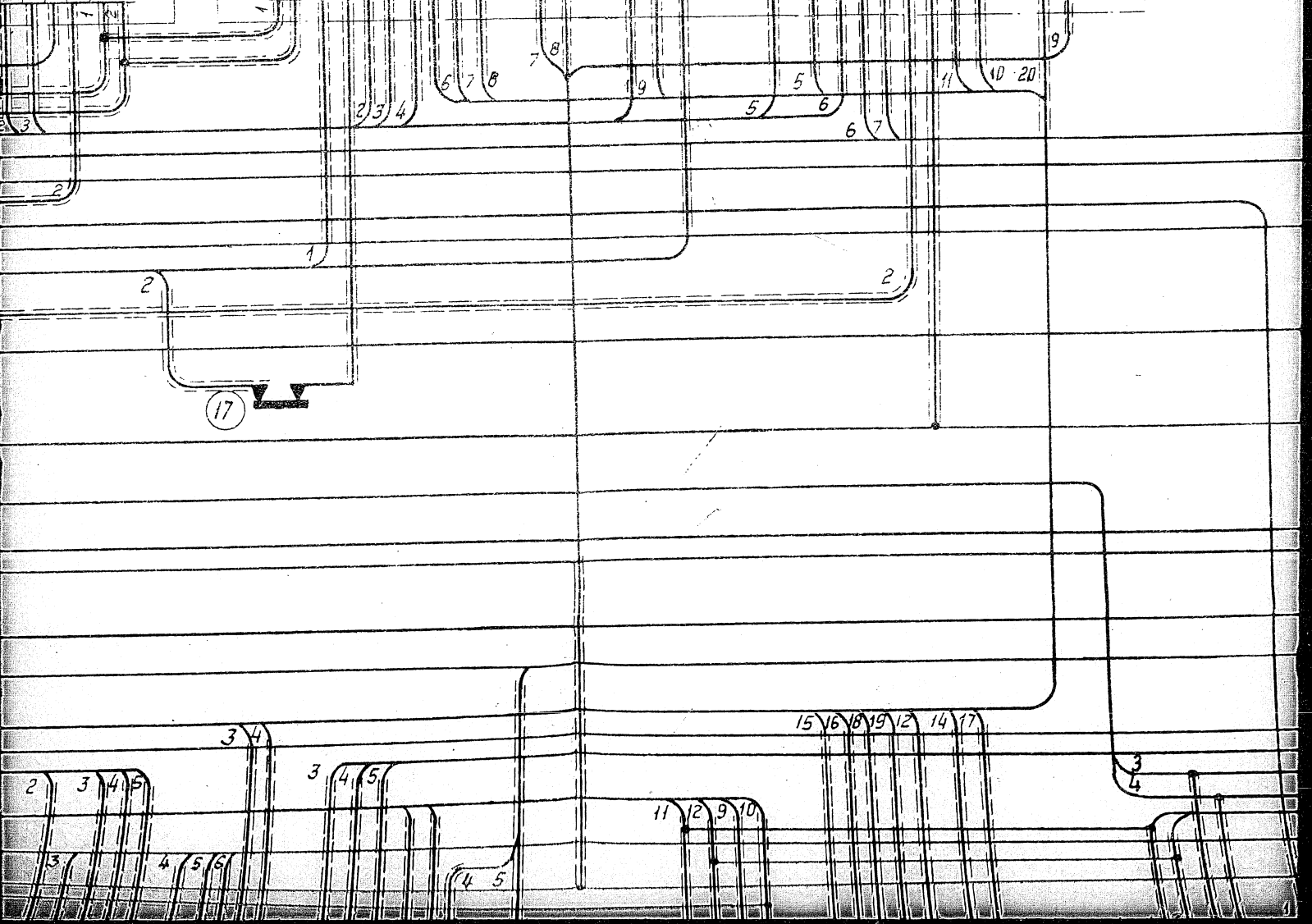
5	Signal	"	U32	35/5
6	"	"	U32	95/6
7	"	"	YC2	25/6
8	220V, 50HZ	"	TY2	31/10
9	220V, 50HZ	Unit 92		2/6
10	220V, 50HZ	" F2		2/7

1	220V, 50HZ	Unit 92	2/6
2	220V, 50HZ	"	2/7
3	220V, 50HZ	"	1/9
4	220V, 50HZ	"	1/10
5	Signal	Sub-un 9C4	5/5
6	"	"	5/6
7	"	Sub-un 4C2	25/5
8	Synchron	Unit 4, Sub-un 01	87/2
9	"	"	87/3
10	"	"	87/4

1	Signalling	Unit 7	53/2
2	"	"	53/9
3	"	"	
4	Body	Sub-un 4C4	5/4
5	"	Un 4, Sub-un 031	88/5
6	"	Unit 92	5/4
7	220V, 50HZ		
8			

1	Trig. pulse	Sub-un 9C2	25/8
2	"	Un 4, Sub-un 031	87/1
3	Trig. pulse	Sub-un 9C2	25/9
4	"	Un 4, Sub-un 031	87/9
5	Synchron	Unit 2, Sub-un 01	383/3
6	Mode	Unit 92	4/9
7	+110V	Unit 4	8/10
8	Body	Un 4, Sub-un 031	89/3
9	+50V	Unit 92	4/10
10	-110V		

1	Relay contr	" MF-312M"	
2	"	Unit 7	56/8
3	"		



7

Pin	Application	Leads to
1		
2		
3		
4		
5		
6		
7	Signal P	Unit 13
8	Signal	Unit 13
9	Signal	Unit 13
10	Signal	Unit 13

8

Pin	Application	Leads to
1	SELOC. OSC. F	Un. 2; Sub-un. RH
2	0	Unit 2
3	Ring. sig. pulse	Unit 2; Sub-un. C9
4		
5		
6	Synchron.	Unit 2; Sub-un. U31
7	Mode	Unit 2; Sub-un. RH
8		
9	Dr. fr. calib. volt	" 3
10	Body	Unit 2

9

Pin	Application	Leads to
1	Signal 2K	Unit 1 CoB 3; Co
2	"	Unit 1 CoB 3 Co
3	Monit. phase 3	Unit 1 CoB 3 Co
4	Monit. phase 2	Unit 1 CoB 3 Co
5	Monit. phase 1	Unit 1 CoB 3 Co
6	Signal PTA	Unit 1 CoB 2 Co
7	Body	Unit 1 CoB 2 Co
8		
9		
10	Body	Unit 4A

10

Pin	Application	Leads to
1	Data trans.	Unit 25; Sub-un. CP
2	Exc. MBT	" " 5K
3	Body	" " "
4	Data trans.	Unit 18;
5	"	"
6		
7		
8	110V, 50 HZ	Unit 25; 4/6;
9	+24V	Unit 2; Sub-un. 873
10		

11

Pin	Application	Leads to
1		
2	110V, 50 HZ	Unit 7A
3	110V, 50 HZ	"
4	Signalling	"
5	Data trans.	"
6	Control ckt.	"
7	"	"
8	Signalling	"
9	Data trans.	"
10	"	"

Pin	Application	Leads to
1	110V, 50 HZ	Unit 7
2	110V, 50 HZ	"
3	Signalling	"
4	"	"
5	"	"

Parts List.

Item No	Standard specification or dwg. No	Name type	Value	No	Remark
1-3	HRO.366.000	Plate ncy-10	10points	3	
4-6	HRO.366.000	— " — " — " —	— " —	3	
7-9	HRO.366.000	— " — " — " —	— " —	3	
10,11	HRO.366.000	— " — " — " —	— " —	2	
12,13	HRO.366.000	— " — " — " —	— " —	2	
14,15	HRO.366.000	— " — " — " —	— " —	2	
17	HK4.135.002cn	Base		1	
18	NY2.039.0330n	Sub.-unit YC2		1	
19	NY2.039.0570n	Sub.-unit YC4		1	
20	NY2.048.0540n	Sub.-unit U32		1	
21	NY2.596.0030n	Sub.-unit NY2		1	
22	NY2.087.0840n	Sub.-unit BN1		1	
23	NY2.087.0850n	Sub.-unit BN2		1	
24	NY4.106.0500n	Cabinet		1	

VLA

Parts List.

Item No	Standard spec or dwg. No	Name type	Value	No	Remark
1-3	H70.366.000	Plate ncy-10	10 points	3	
4-6	H70.366.000	" " "	" "	3	
7-9	H70.366.000	" " "	" "	3	
10, 11	H70.366.000	" " "	" "	2	
12, 13	H70.366.000	" " "	" "	2	
14, 15	H70.366.000	" " "	" "	2	
17	HK4.135.00200	Base		1	
18	142.039.03300	Sub.-unit 4C2		1	
19	142.039.05700	Sub.-unit 4C4		1	
20	142.048.05400	Sub.-unit U32		1	
21	142.596.00300	Sub.-unit 172		1	
22	142.087.08400	Sub.-unit 871		1	
23	142.087.08500	Sub.-unit 872		1	
24	144.106.05000	Cabinet		1	

22/8	Unit 2	24/5
22/8		
21/1	Unit 2	26/6
1/9	Unit 4	11/6
23/3	Unit 2	24/7
2/6	"	23/5

4	Unit 93	3/4
5	93	3/5
7	93	3/1
12	93	3/2
13	93	3/3
2	93	2/2
3	93	2/3

11	Un. 25	4/1
17	"	4/2
18	"	4/3
13	"	4/4, 3/1
4	"	4/5, 3/2
6	Un. 2	22/9

4A 1/2
4A 1/1

8
9
10

3

Unit 4	3/3	Unit 4, Sub. un. 68/5	Signal 0 NK	1
"	3/4	" " 68/6	Signal 20 NK	2
"	3/2	Unit 4, Sub. un. 4C1A 15/9	Body	3
"	3/1	" " 15/6	Signal	4
"	11/8	Unit 4, Sub. un. 87/1	Trig. pulse	5
"	11/9	" " 87/2	Synchron.	6
"	11/3	" " 87/3	"	7
"	11/4	" " 87/4	"	8
"	11/5	" " 88/5	Body	9
"				10

4

Unit 4	11/7	Unit 4, Sub. un. 89/3	+50V	1
"	11/10	" " 4C1 32/4	+250V	2
"	12/2	" " 4C1 32/6	-105V	3
"	12/3	" " 4C1A 18/1	+250V	4
"	12/4	" " 4C1A 18/2	0	5
"	12/5	" " 4C1A 18/3	+24V	6
"	4/1	Unit 2, Sub. un. 382/8	St. loc. osc. fr	7
"	4/2	Unit 4, Sub. un. 4C1 33/3	0	8
"	4/3	Unit 2, Sub. un. 81/1	Ping. sig. pulse	9
"				10

5

Unit 4	3/6	"MF-312H"	Relay cont.	1
"	12/7	Un. 4 Sub. un. 12/3, Sub. un. 4C1 32/4	0	2
"	12/6	Un. 4, Sub. un. 4C1 32/4	+250V	3
				4
				5
				6
Unit 4	3/10	Vertical gyro	Signal ZK	7
"	3/9	"	Signal ZK	8
"	3/8	"	Data trans	9
"	3/7	"	"	10

6

				1
				2
Unit 8	4/9	Unit 8 4C6 66/1	Signal 4M	3
"	4/8	" 4C6 66/2	Body	4
"	4/2	" 4C13 65/1	A.G.C.	5
"	4/5	" 4C13 64/5	Signal NC	6
"	4/6	" 4C13 64/6	Body	7
"	4/7	" 4C11 64/5	Signal NC	8
"	4/3	" 4C13 64/2	Adm-123-5 contr.	9
"	4/4	" 4C13 64/1	"	10

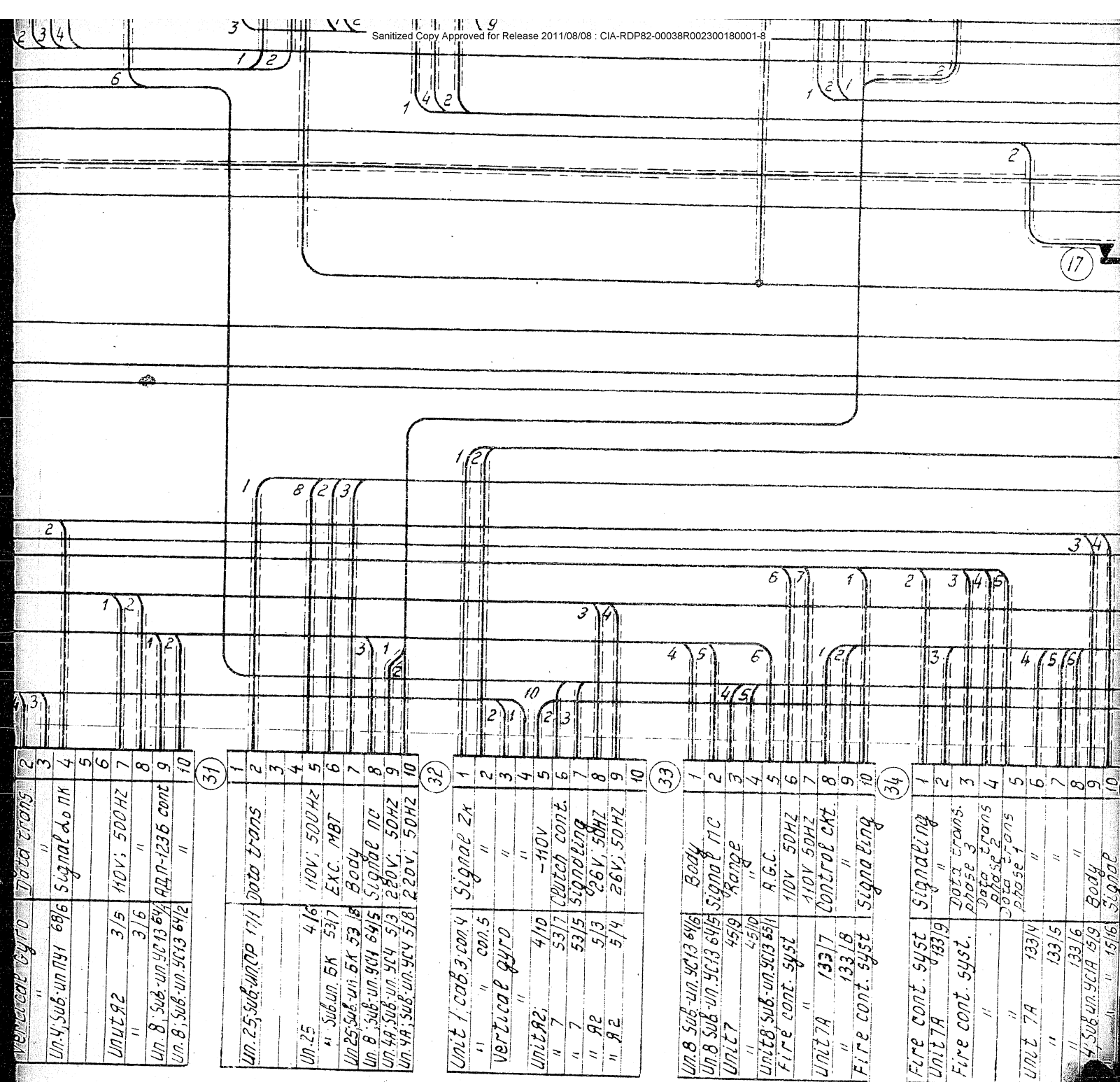
15

	Fire contr. syst.	HOV 50 Hz	1
	"	"	2
			3
	Fire contr. syst.	Signalling	4
	"	"	5
	"	Data trans. phase 3	6
	"	Data trans. phase 2	7
	"	Data trans. phase 1	8
			9
			10

30

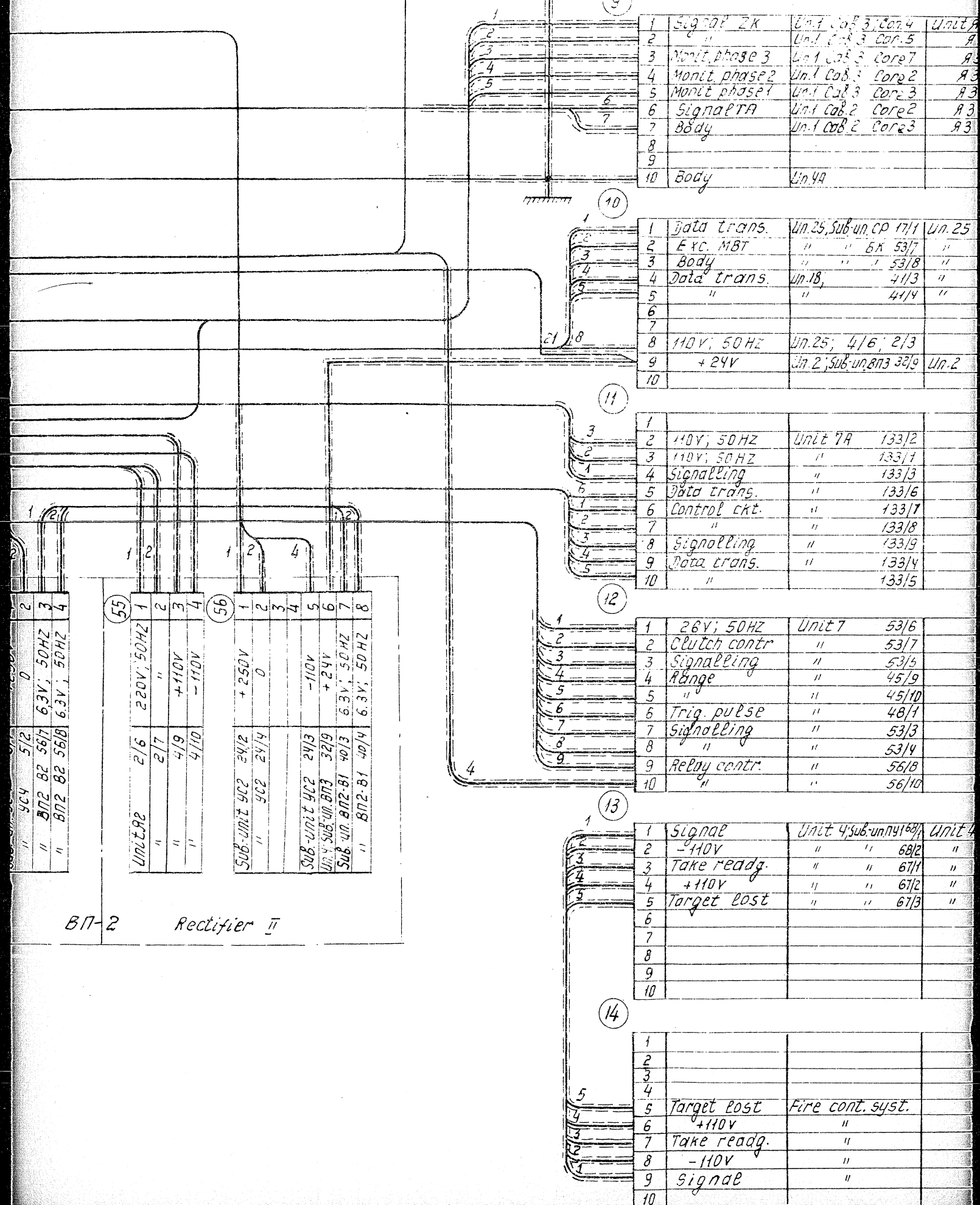
Unit 4, Sub. un. 68/5	Signal 0 NK	1
Unit 4, Sub. un. 68/6	Signal 20 NK	2
Unit 4, Sub. un. 15/9	Data trans	3
Unit 4, Sub. un. 87/1	Signal	4
Unit 4, Sub. un. 87/2	Trig. pulse	5
Unit 4, Sub. un. 87/3	Synchron.	6
Unit 4, Sub. un. 87/4	"	7
Unit 4, Sub. un. 88/5	Body	8

21



NY 2





B7-2

Rectifier II

3	Monit. phase 3	Unit 3 Core 5	A3	3/1
4	Monit. phase 2	Unit 3 Core 7	A3	3/1
5	Monit. phase 1	Unit 3 Core 2	A3	3/2
6	Signal RA	Unit 3 Core 3	A3	3/3
7	Body	Unit 3 Core 2	A3	2/2
8				
9				
10	Body	Unit 4		

1	Data trans.	Unit 25, Sub-unit CP 17/1	Unit 25	4/1
2	Exc. MBT	" " 53/7	"	4/2
3	Body	" " 53/8	"	4/3
4	Data trans.	Unit 18, 4/13	"	4/4, 3/1
5	"	" 4/14	"	4/5, 3/2
6				
7				
8	110V, 50HZ	Unit 25, 4/6, 2/3		
9	+24V	Unit 2, Sub-unit 813 32/9	Unit 2	22/9
10				

1				
2	110V, 50HZ	Unit 7A	133/2	
3	110V, 50HZ	"	133/1	
4	Signalling	"	133/3	
5	Data trans.	"	133/6	
6	Control ckt.	"	133/7	
7	"	"	133/8	
8	Signalling	"	133/9	
9	Data trans.	"	133/4	
10	"	"	133/5	

1	26V, 50HZ	Unit 7	53/6	
2	Clutch contr.	"	53/7	
3	Signalling	"	53/5	
4	Range	"	45/9	
5	"	"	45/10	
6	Trig. pulse	"	48/1	
7	Signalling	"	53/3	
8	"	"	53/4	
9	Relay contr.	"	56/8	
10	"	"	56/10	

1	Signal	Unit 4, Sub-unit 168/1	Unit 4	5/9
2	-110V	" " 68/2	"	5/10
3	Take readg.	" " 67/1	"	6/1
4	+110V	" " 67/2	"	6/2
5	Target lost	" " 67/3	"	6/3
6				
7				
8				
9				
10				

1				
2				
3				
4				
5	Target lost	Fire contr. syst.		
6	+110V	"		
7	Take readg.	"		
8	-110V	"		
9	Signal	"		
10				

Rectifier II

11	Unit 2
17	"
18	"
13	" 4/4, 3/1
14	" 4/5, 3/2
3	
19	Unit 2 22/9

2	
7	
3	
6	
7	
8	
9	
14	
5	

6	
7	
3	
9	
10	
7	
3	
7	
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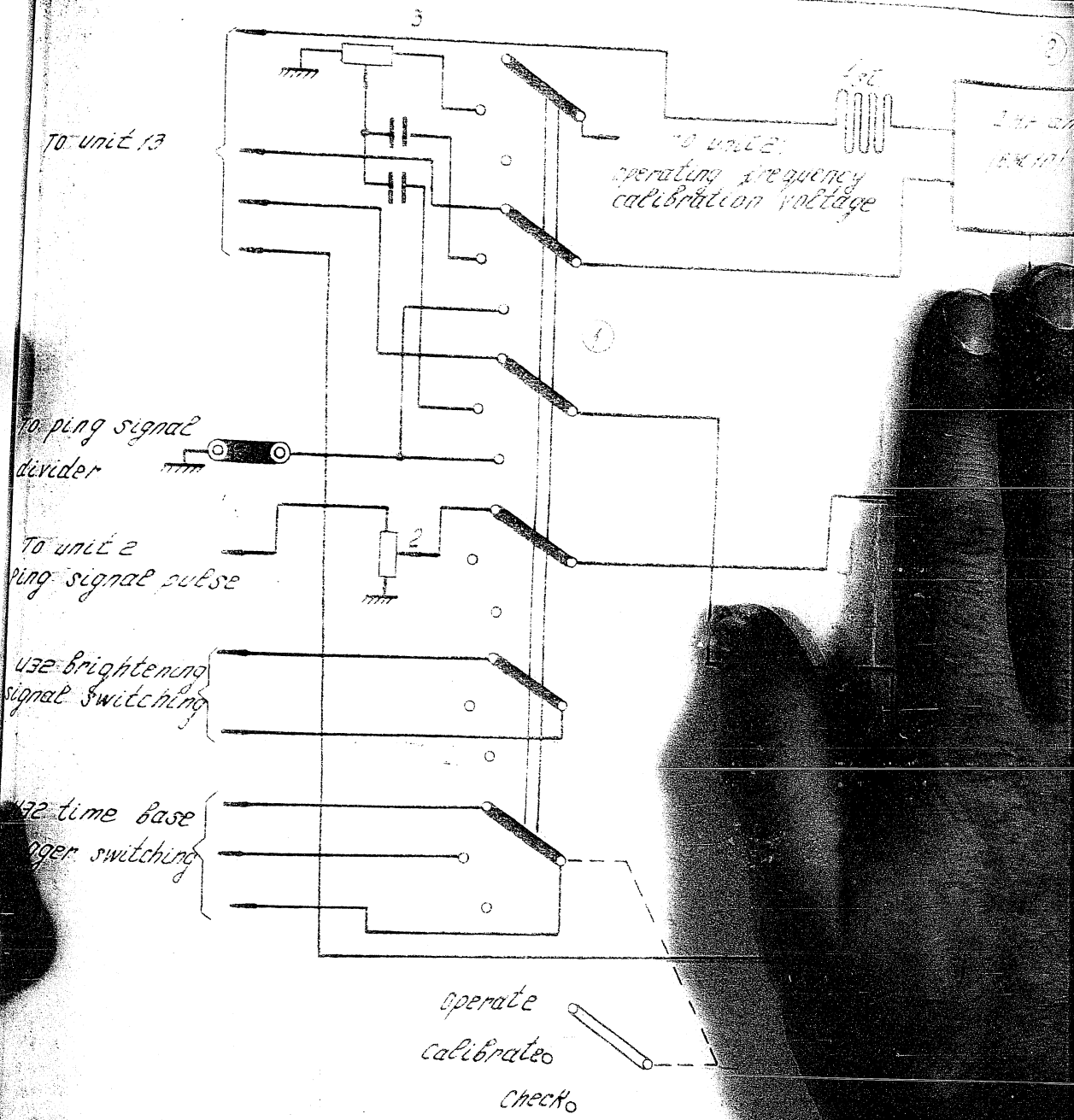
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12	" 5/10
14	" 6/1
12	" 6/2
13	" 6/3

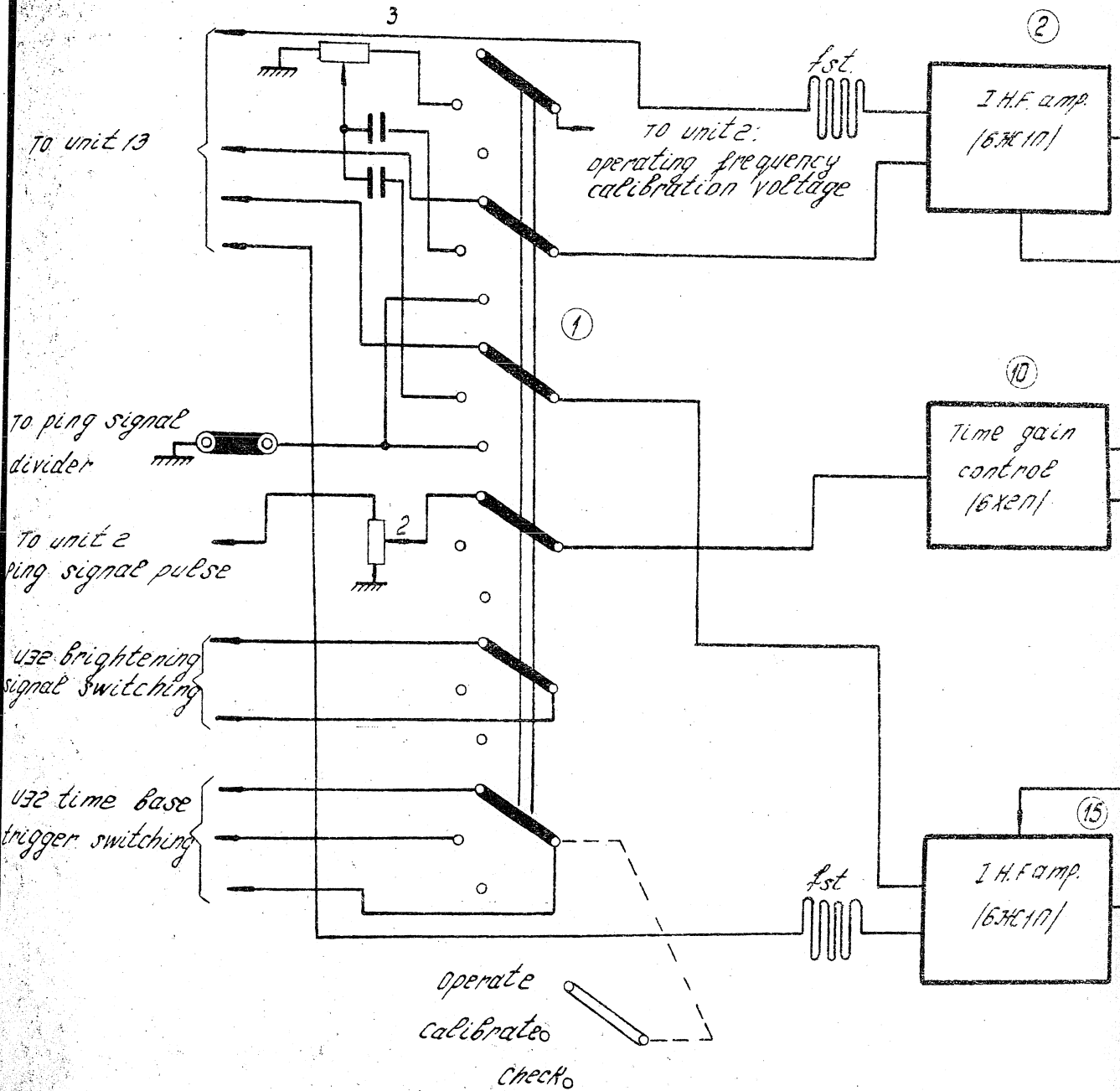
Unit 4A Circuit Diagram	NY2.390.047 Cx3	
	Sheet: 1	Sheets: 1

STAT

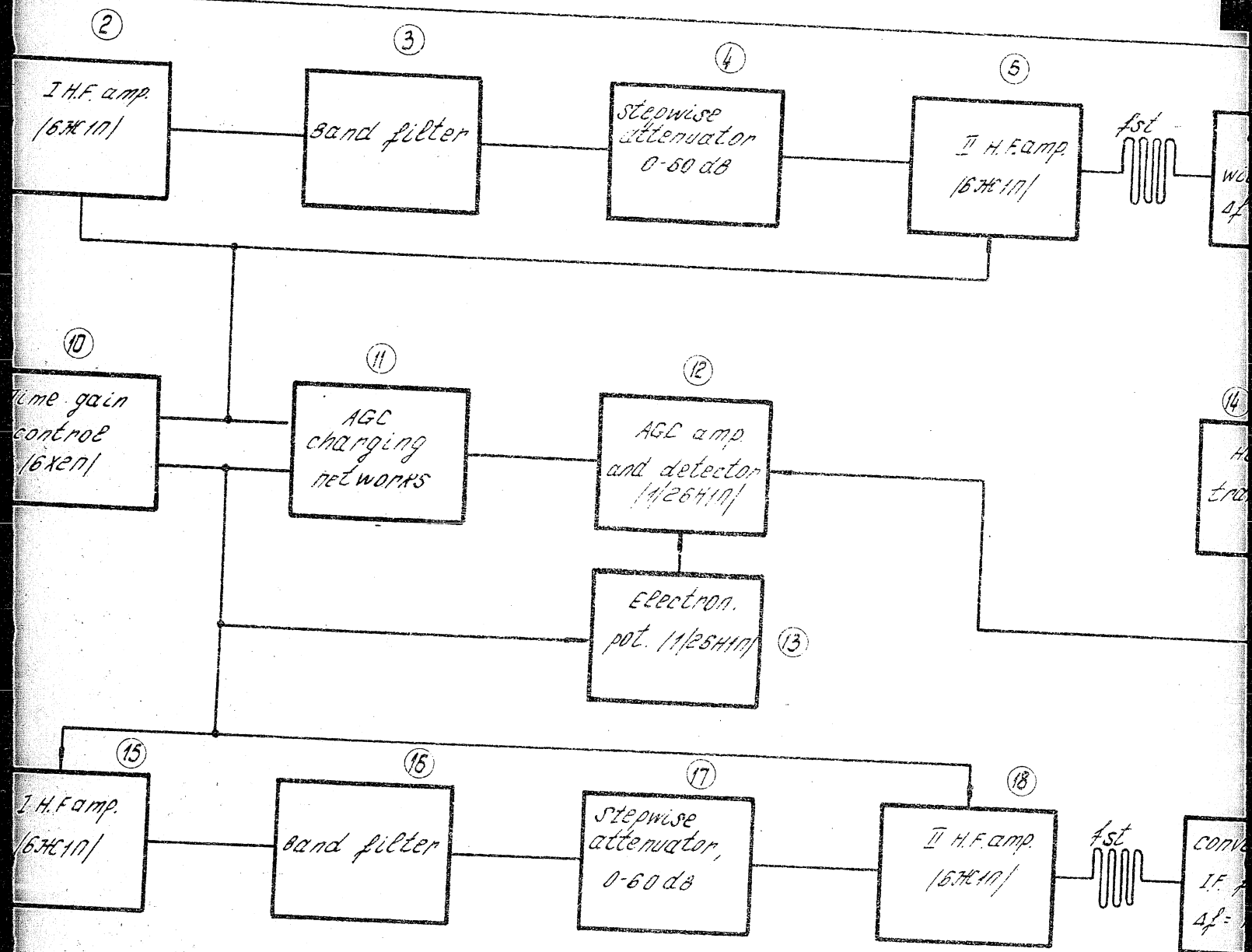
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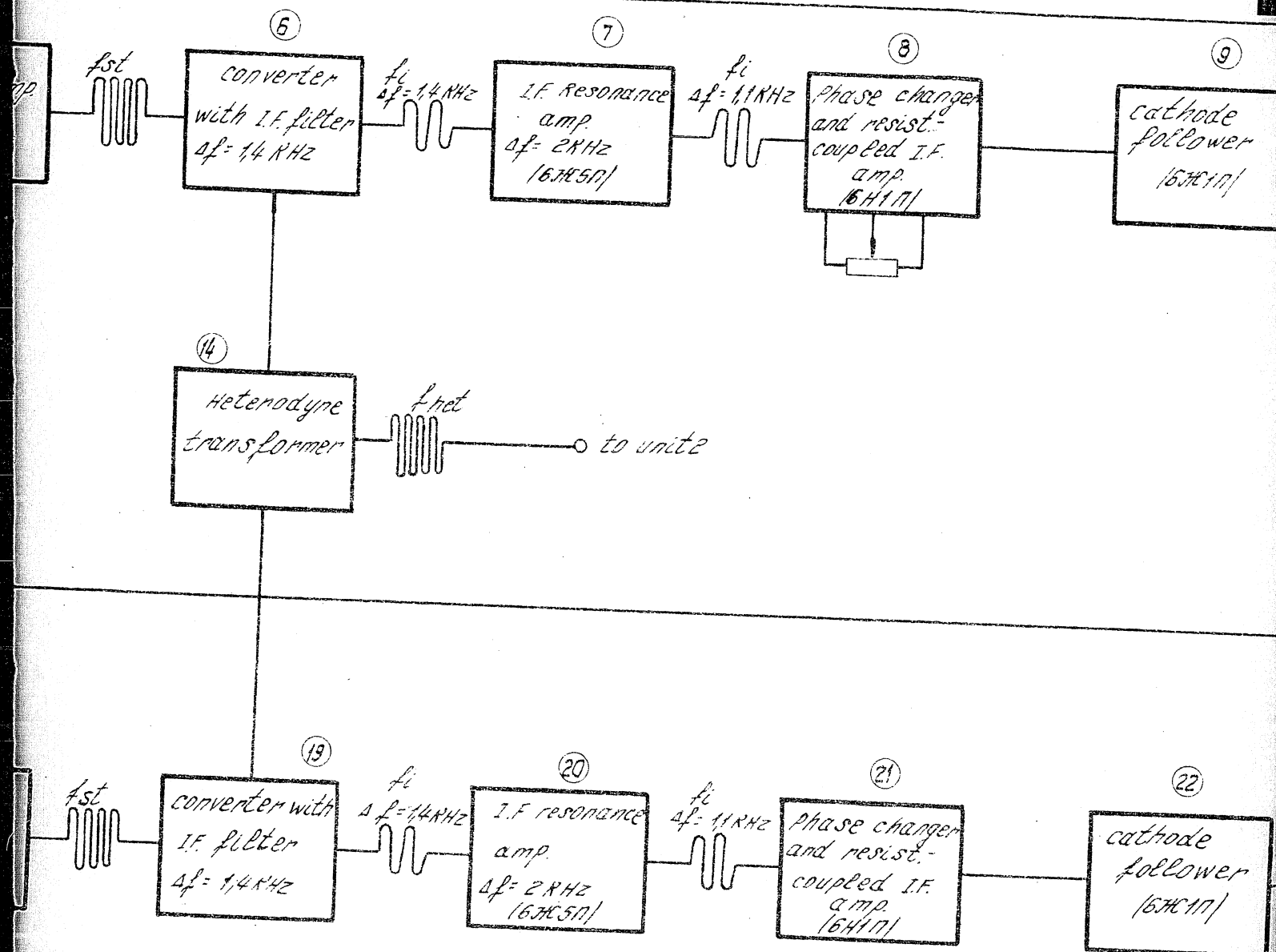
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3	body	
4	data trans	LN 18
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7	body	
8	"	
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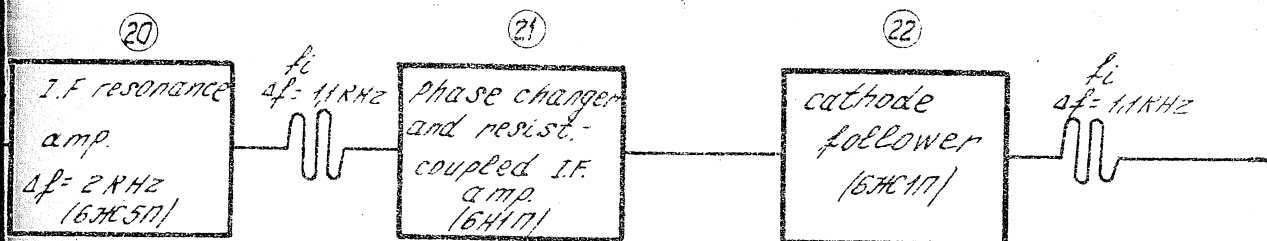
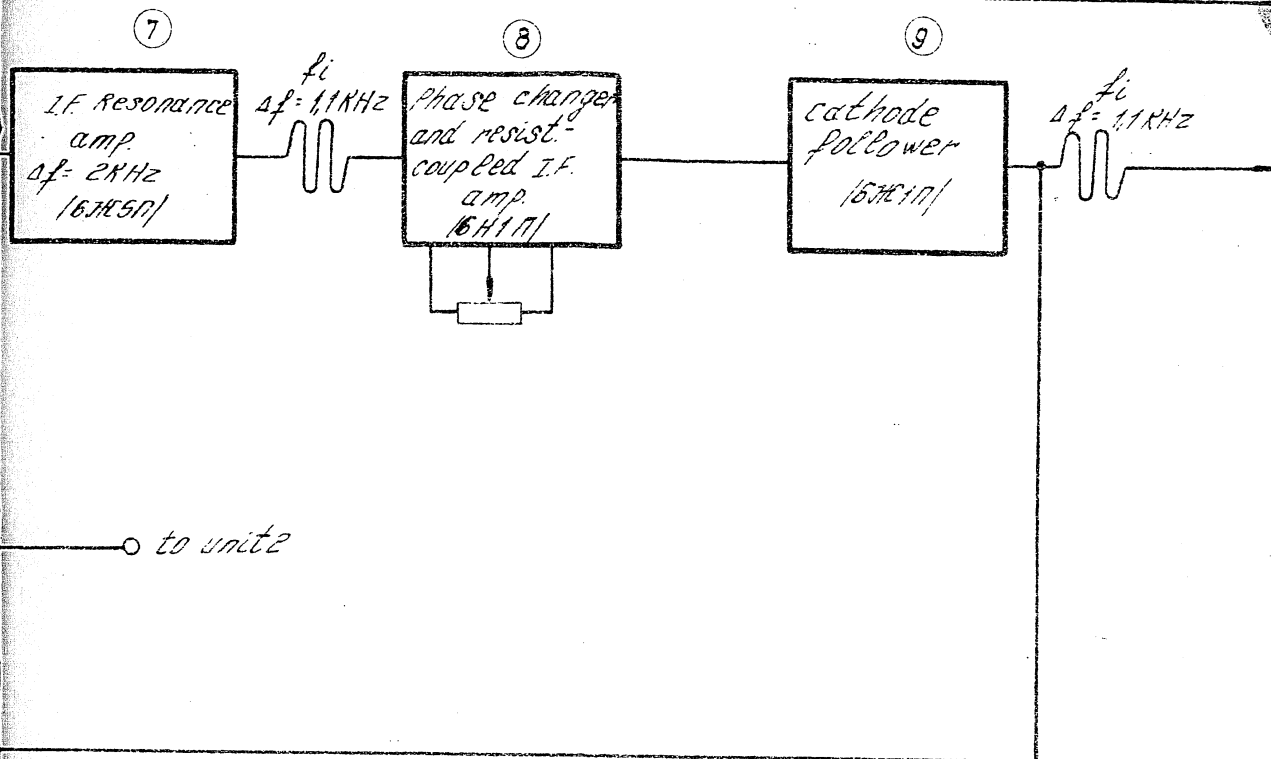


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4	data	4
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8		8
9		9
10	body	10
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100		100





SUB-UNIT 4C2
FUNCTIONAL
DIAGRAM



SUB-UNIT 4C2
FUNCTIONAL
DIAGRAM

NY 2.039.033CXP

Sheet: 1

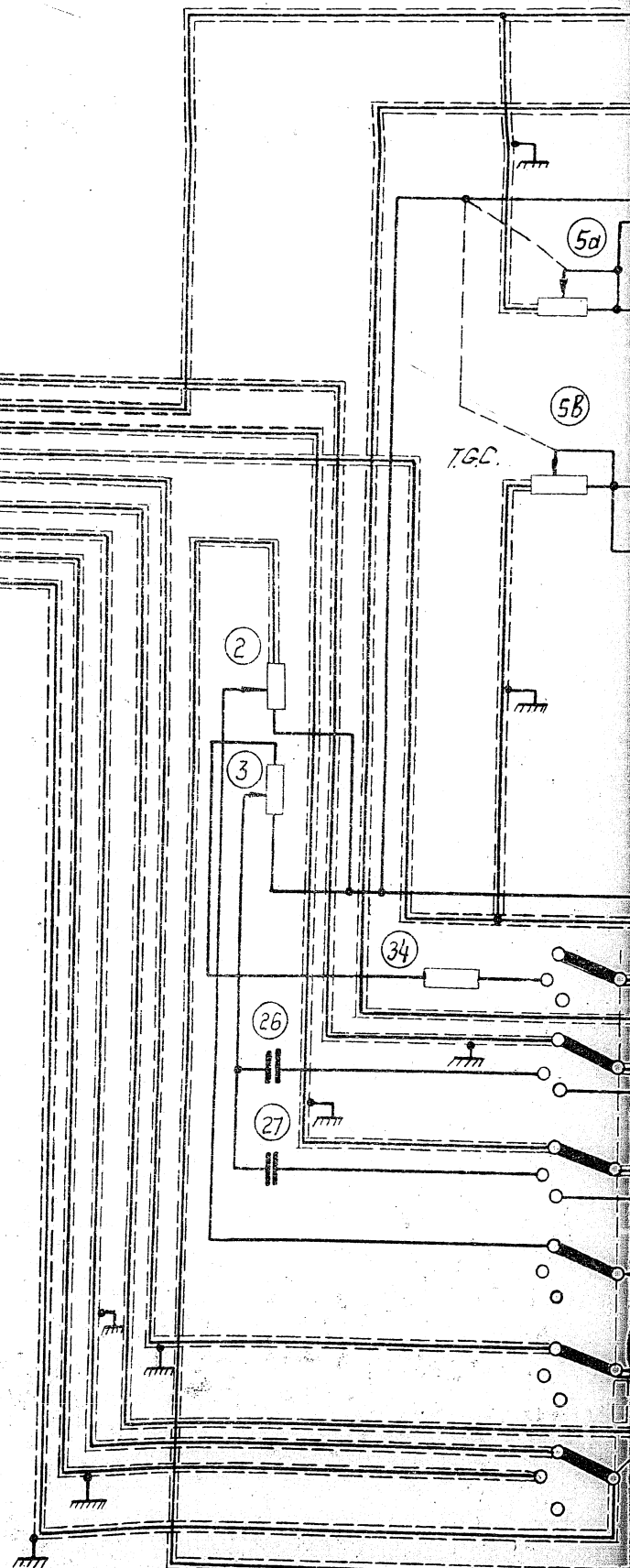
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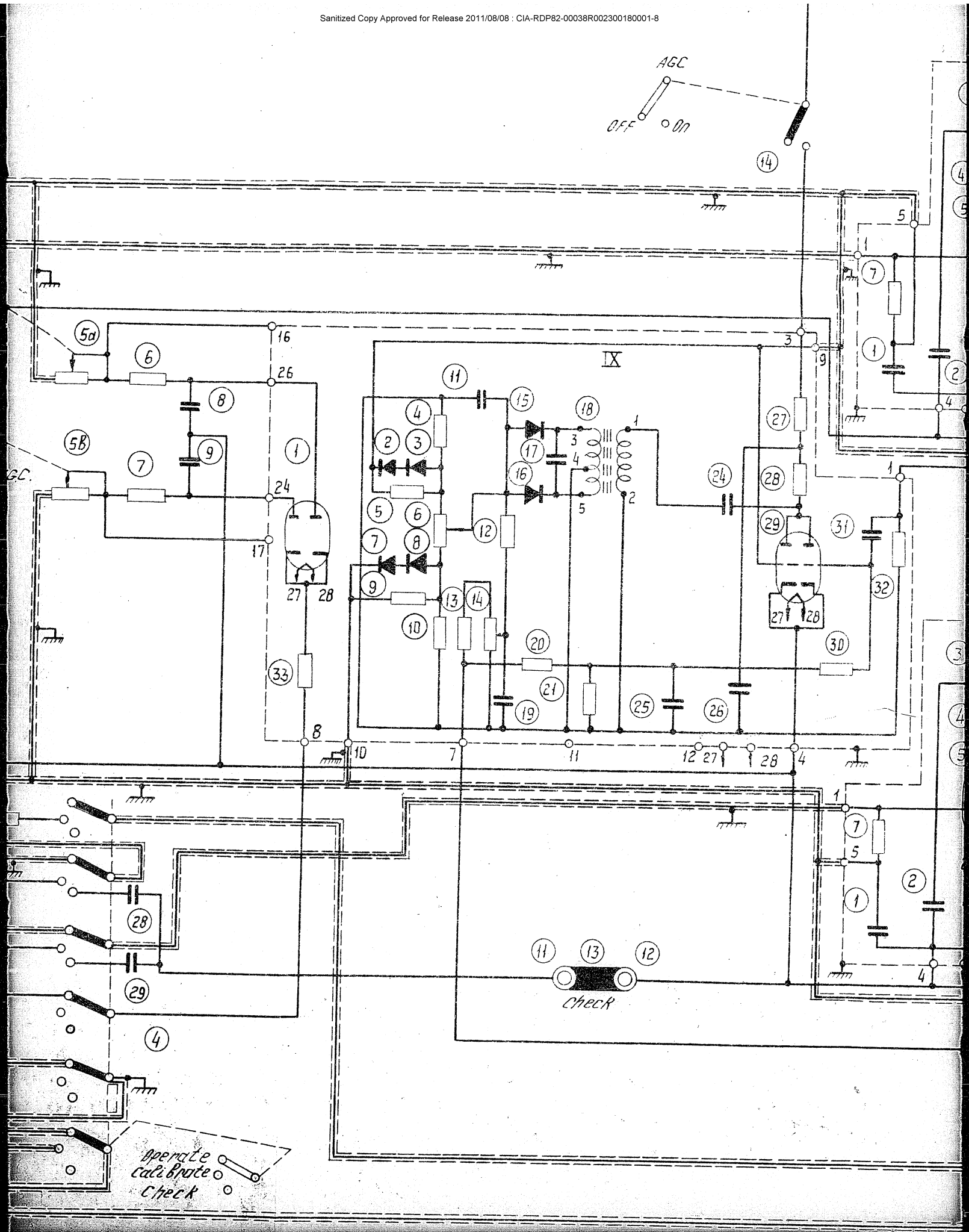
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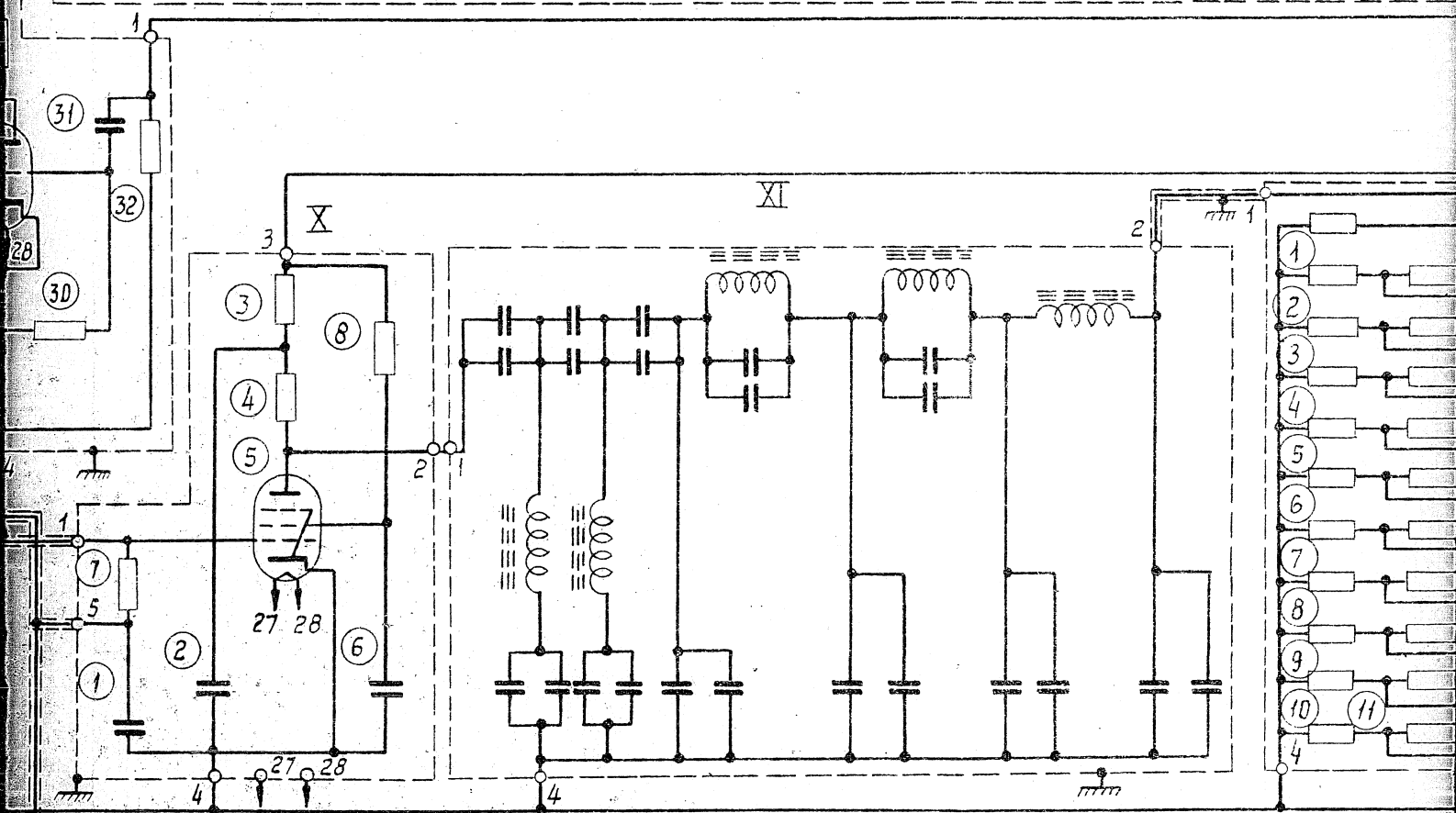
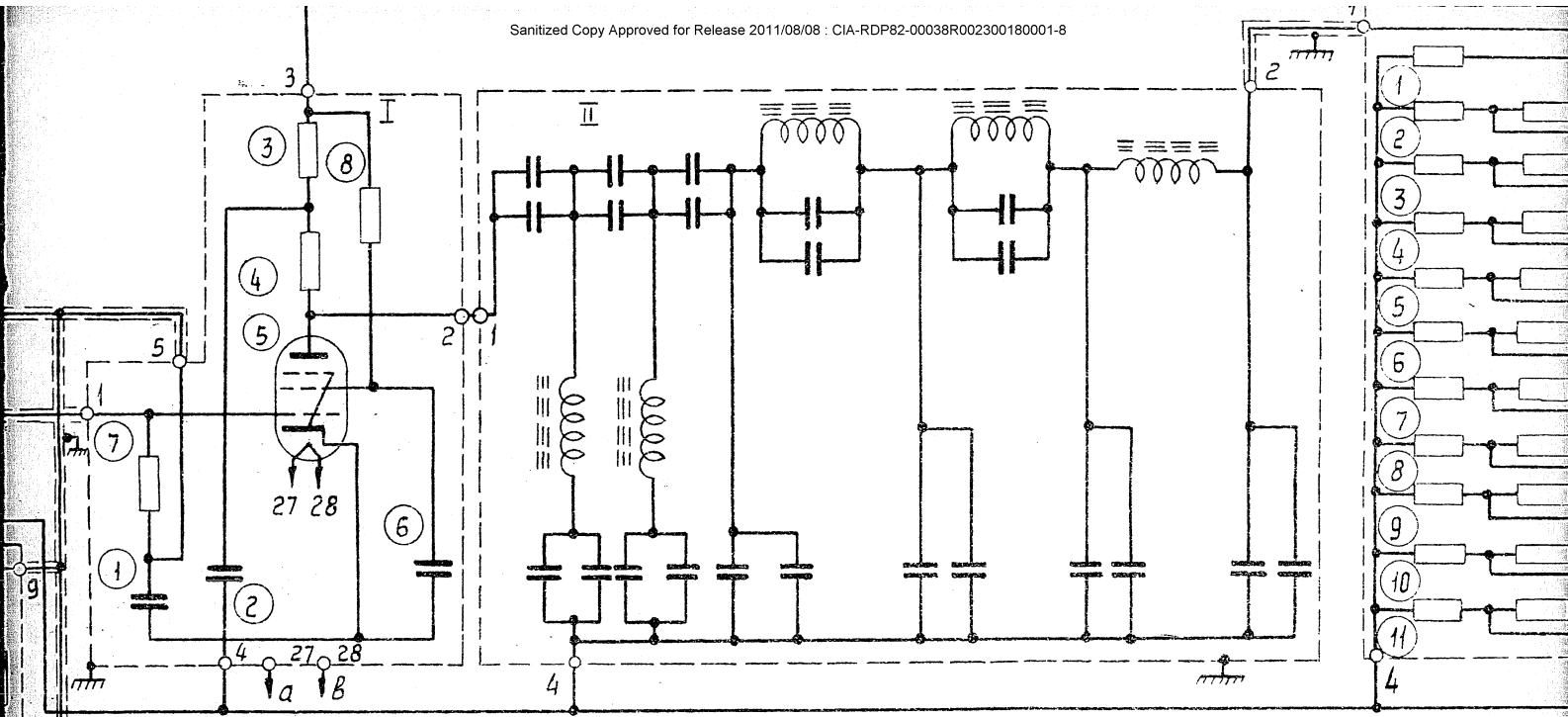
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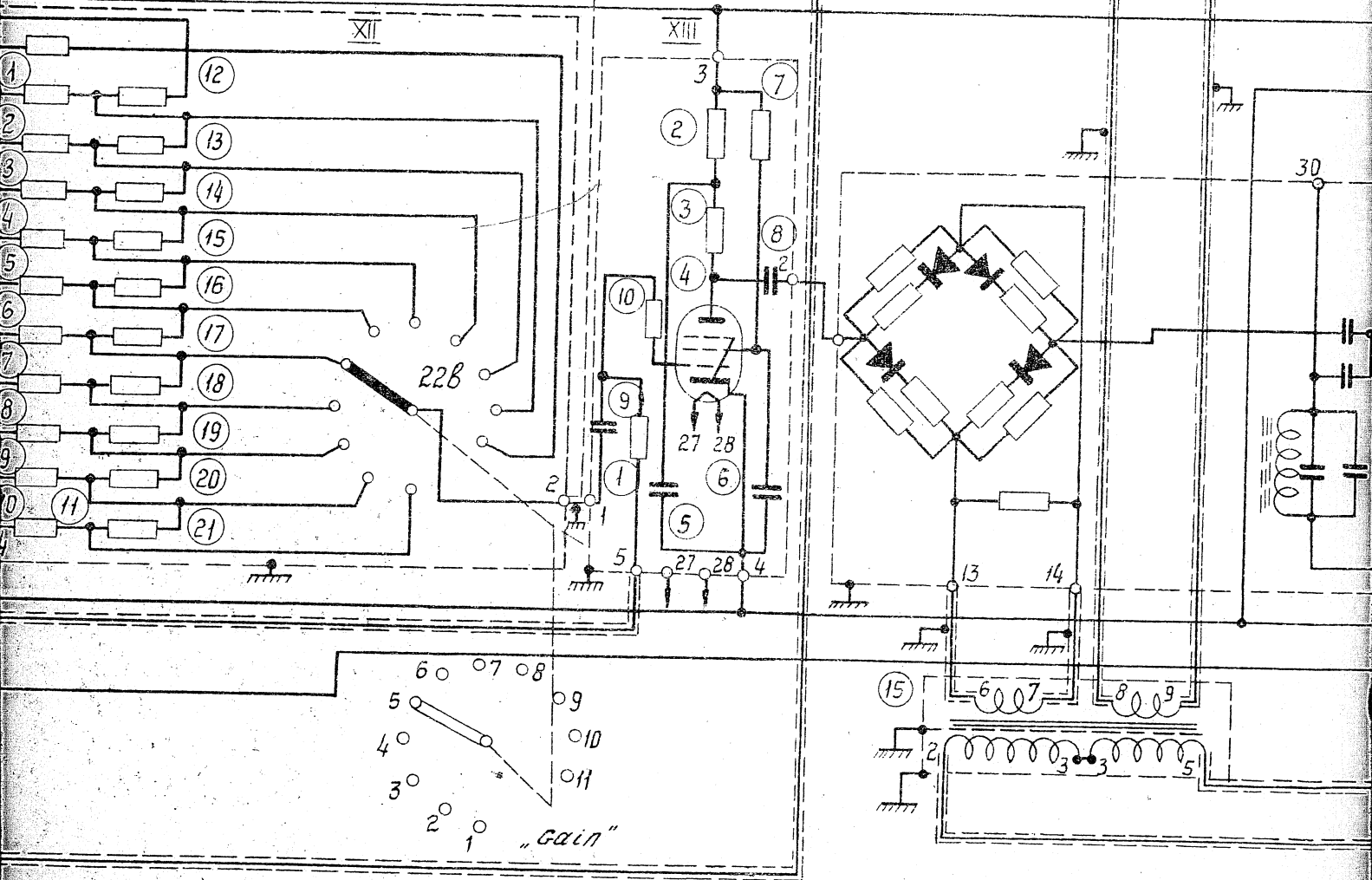
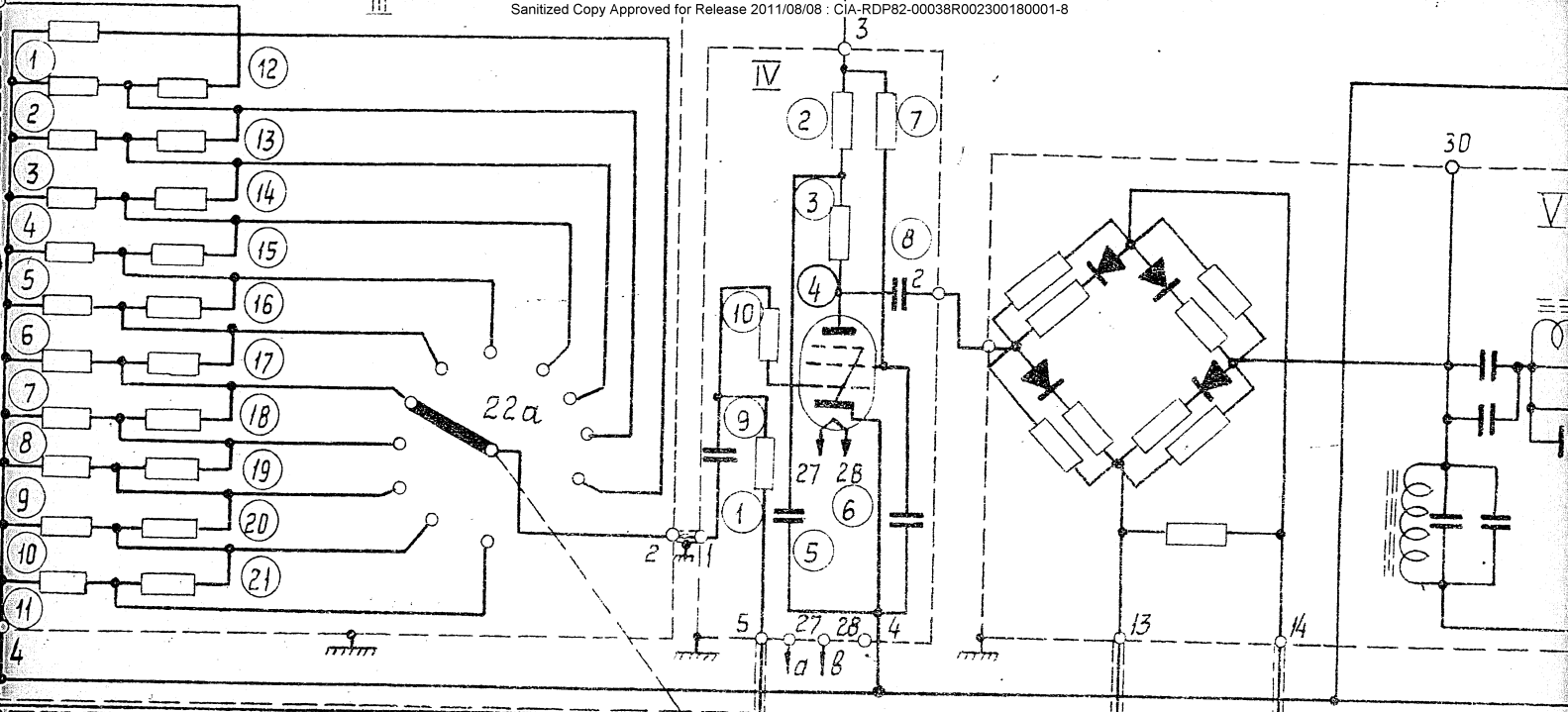
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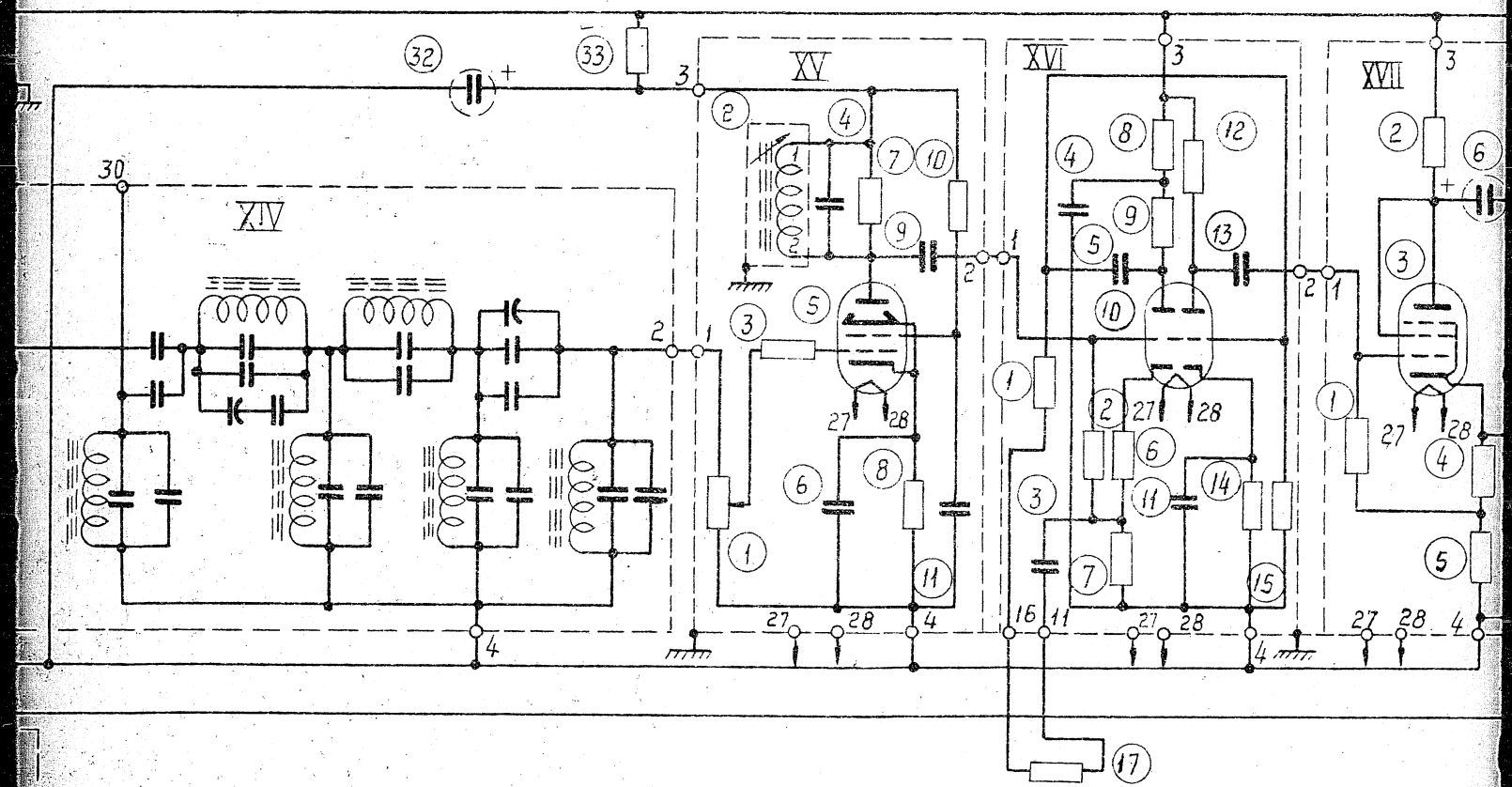
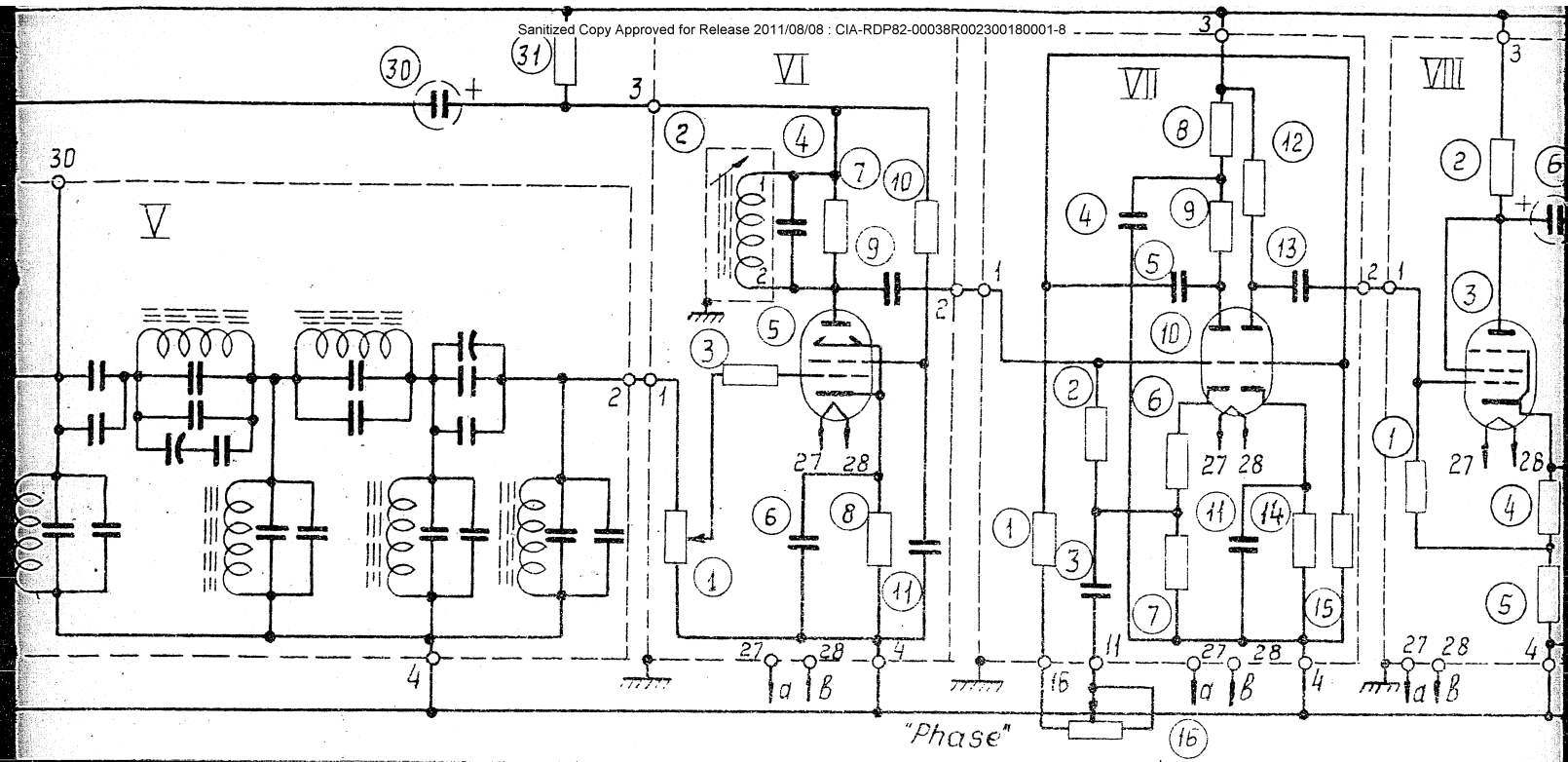
VLA	Leads to	APPE'n	Nº
Unit 4A 7/7	Unit 13 17/1	Signal	1
" 7/8	" 17/2	"	2
" 7/9	" 17/3	"	3
" 7/10	" 17/4	"	4
	Unit 4A SU 032 95/7	"	5
	Unit 4A SU 032 5/7	"	6
Unit 4A 12/6	Unit 7 48/1	Trig pulse	7
	Unit 4A SU 032 97/1	"	8
	" " 97/4	"	9
			10

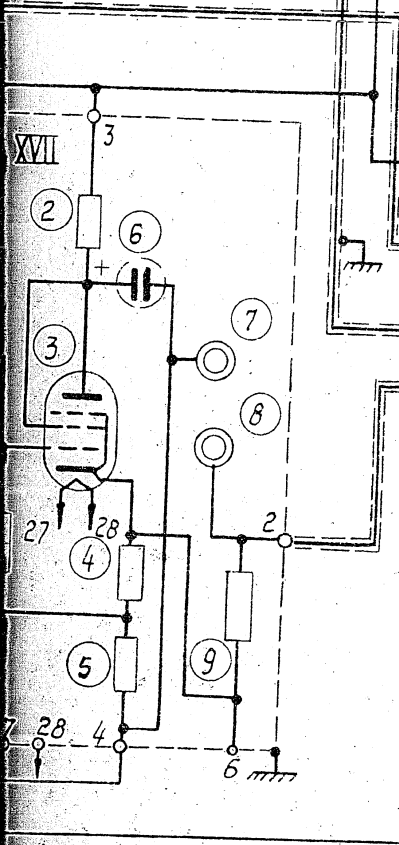
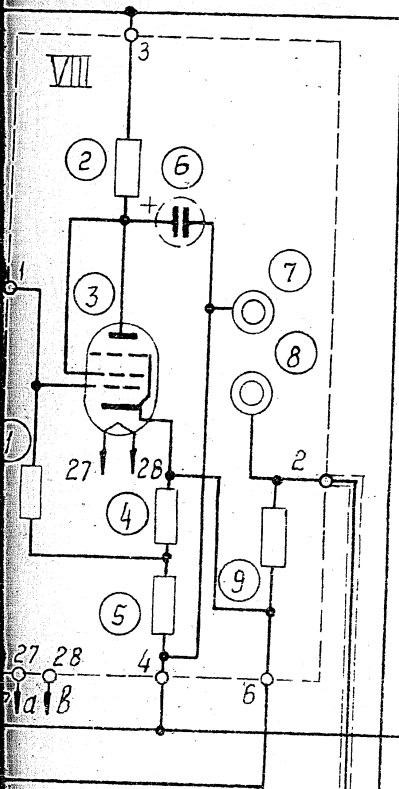








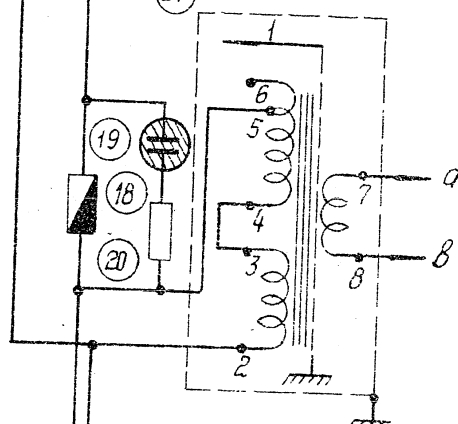




(23)

Pin App'n	Leads to	Via
1 Pin 9, 309	Unit 2 S-U 409 8/11	Unit 4A 8/3
2 220V 50Hz	Unit 92 2/6	" 1/1
3 "	" 2/7	" 1/2
4 Body	Unit 4A 9/10	" 1/2
5 35E 057r	Unit 2 S-U 1H 382/8	Unit 4A 8/1
6 "	Unit 2 22/8	" 8/2

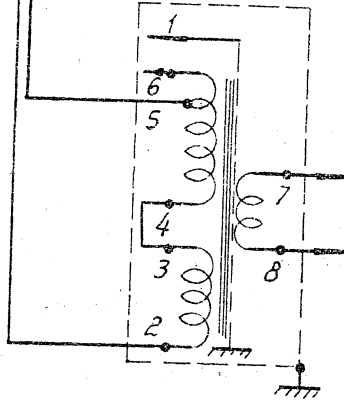
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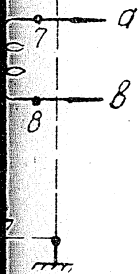
Pin App'n	Leads to	Via
1		
2 +250V	Unit 4A S-U 812-8255/1	
3 -110V	" " 56/5	
4 0	" " 56/2	
5 220V 50Hz	Unit 2 S-U 1H 383/6	Unit 4A 8/9
6		
7		
8 out signal	Unit 4A S-U 304 6/3	
9 0	" " 6/2	
10 out signal	" " 6/1	

(22)



For

4A	4/7	"	1/2
4A	9/10		
2S-U1H	382/8	Unit 4A	8/1
22	22/8	"	8/2



Leads to	VIA
4A 5U 812-8235/1	
" 56/5	
" 56/2	
2S-U1H 383/6	Unit 4A 8/9
4A 5U 4 6/3	
" 6/2	
" 6/1	



For parts list, see NY2.039.033A

Sub-unit 4C2 circuit diagram	NY2.039.033C-3	
	Sheet: 1	Sheets: 1

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
	IV2.039.040	Assembly I, X			
1		Capacitor KBP-1-300-1-M	1 mfd	1	
2	GOST 6118-59	Capacitor KBP-M-400-0.05-10%	0.05 mfd	1	
3	GOST 7113-66	Resistor MNT-0.5-1, 1K-10%	1.1 kohm	1	
4	GOST 7113-66	Resistor MNT-0.5-3, 2K-5%	3.2 kohms	1	
5		Tube 6F4H-EB		1	
6	GOST 6118-59	Capacitor KBP-M-400-0.05-10%	0.05 mfd	1	
7,8	GOST 7113-66	Resistor MNT-0.5-68K-10%	68 kohms	2	
	IV2.057.058	Filter, II, XI			
	IV3.602.009	Assembly III, XII			
1	GOST 7113-66	Resistor MNT-0.5-11K-5%	11 kohms	1	Parts
2-10	GOST 7113-66	Resistor MNT-0.5-30K-5%	30 kohms	9	for
11-21	GOST 7113-66	Resistor MNT-0.5-15K-5%	15 kohms	11	one
22	26.722.186	Rotary switch		1	Assembly
	IV2.039.036	Assembly IV, XIII			
1	GOST 7113-66	Resistor MNT-0.5-300K-10%	300 kohms	1	
2	GOST 7113-66	Resistor MNT-0.5-1, 1K-10%	1.1 kohm	1	

SUB-UNIT VC 2

Parts List

IV2.039.033 A

Sheet: 1

Sheets: 6

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
3	GOST 7113-66	Resistor MHT-0,5-10K $\pm$ 10%	10 kohms	1	
4		Tube 6X5H		1	
5,6	GOST 6118-59	Capacitor KBT-M-400-0,05 $\pm$ 10%	0.05 mfd	2	
7	GOST 7113-66	Resistor MHT-0,5-68K $\pm$ 10%	68 kohms	1	
8,9	GOST 11155-65	Capacitor CTM-4-250-F-0,01 $\pm$ 10%	0.01 mfd	2	
10	GOST 7113-66	Resistor MHT-0,5-8K $\pm$ 10%	8 kohms	1	
	IV2.219.007	Converter V, XIV			
	IV2.039.033	Assembly VI, XV			
1		Resistor CHC-2-10K-00-3-20,20%	10 kohms	1	
2	IV4.756.023	Variable inductor		1	
3	GOST 7113-66	Resistor MHT-0,5-10K $\pm$ 10%	10 kohms	1	
4	GOST 11155-65	Capacitor CTM-3-500-F-390 0 $\pm$ 10%	3900 pF	1	
5		Tube 6X5H		1	
6		Capacitor MBIT-3-400-A-0,5-F	0.5 mfd	1	
7	GOST 7113-66	Resistor MHT-0,5-36K $\pm$ 10%	36 kohms	1	
8	GOST 7113-66	Resistor MHT-0,5-130 $\pm$ 10%	130 ohms	1	
9	GOST 11155-65	Capacitor CTM-4-250-F-0,01 $\pm$ 10%	0.01 mfd	1	
10	GOST 7113-66	Resistor MHT-0,5-68K $\pm$ 10%	68 kohms	1	
11	GOST 6118-59	Capacitor KBT-M-400-0,05 $\pm$ 10%	0.05 mfd	1	

IV2.039.033 A

Sheet: 2 Sheets: 6

Item No.	Standard, Spec. or DWG. No.	Name, type	Value	No.	Remark
	JY2.039.042	Assembly VII, XVI			
1	GOST 7113-66	Resistor MNT-0,5-27K $\pm$ 10%	27 kohms	1	
2	GOST 7113-66	Resistor MNT-0,5-510K $\pm$ 10%	510 kohms	1	
3		Capacitor MSFO-1-300-1,0-II	1 mfd	1	
4		Capacitor MSFO-1-300-1,0-II	1 mfd	1	
5	GOST 11155-65	Capacitor CFM-1-250-F-10 $\pm$ 5%	110 pF	1	
6	GOST 7113-66	Resistor MNT-0,5-200 $\pm$ 10%	200 ohms	1	
7	GOST 7113-66	Resistor MNT-0,5-2K $\pm$ 10%	2 kohms	1	
8	GOST 7113-66	Resistor MNT-0,5-1,1K $\pm$ 10%	1.1 kohms	1	
9	GOST 7113-66	Resistor MNT-0,5-2K $\pm$ 10%	2 kohms	1	
10		Tube 6X11-EE		1	
11	GOST 6118-59	Capacitor MBF-M-200-G,1 $\pm$ 10%	0.1 mfd	1	
12	GOST 7113-66	Resistor MNT-0,5-9,1K $\pm$ 10%	9.1 kohms	1	
13	GOST 11155-65	Capacitor CFM-1-250-F-0,01 $\pm$ 10%	0.01 mfd	1	
14	GOST 7113-66	Resistor MNT-0,5-330 $\pm$ 10%	330 ohms	1	
15	GOST 7113-66	Resistor MNT-0,5-510K $\pm$ 10%	510 kohms	1	
	JY2.039.041	Assembly VIII, XVII			
1	GOST 7113-66	Resistor MNT-0,5-510K $\pm$ 10%	510 kohms	1	
2	GOST 7113-66	Resistor MNT-0,5-8,2K $\pm$ 10%	8.2 kohms	1	
3		Tube 6X11-EE		1	

JY2.039.038 II

Sheet: 3 Sheets: 6

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
4	GOST 7113-66	Resistor MHT-C, 5-160 $\pm$ 10%	160 ohms	1	
5	GOST 7113-66	Resistor MHT-C, 5-8.2K $\pm$ 10%	8.2 kohms	1	
6		Capacitor SP-6-500/10 M	10 mfd	1	
7,8	EG.729.002	Jack		2	
9	GOST 7113-66	Resistor MHT-C, 5-22 $\pm$ 10%	22 kohms	1	
	AV2.039.049	assembly IX			
1		Tube 6X4-ES		1	
2,3		Diode II 209		2	
4	GOST 7113-66	Resistor MHT-C, 5-51K $\pm$ 10%	51 kohms	1	
5	GOST 7113-66	Resistor MHT-C, 5-300 $\pm$ 10%	300 kohms	1	
6		Resistor CPO-1-47 $\pm$ OC-3-20 $\pm$ 20%	47 kohms	1	
7,8		Diode II 209		2	
9	GOST 7113-66	Resistor MHT-C, 5-300 $\pm$ 10%	300 kohms	2	
10	GOST 7113-66	Resistor MHT-C, 5-51K $\pm$ 10%	51 kohms	1	
11	GOST 6118-59	Capacitor KEP-M-200-0.1 $\pm$ 10%	0.1 mfd	1	
12	GOST 7113-66	Resistor MHT-C, 5-30K $\pm$ 10%	30 kohms	1	
13	GOST 7113-66	Resistor MHT-C, 5-68K $\pm$ 10%	68 kohms	1	
14		Resistor CPO-2-4.7K-OC-3-20 $\pm$ 20%	4.7 kohms	1	
15,16		Diode II 209		2	
17	GOST 11155-65	Capacitor CPM-3-500-T-3900 $\pm$ 10%	3900 pF	1	

AV2.039.033 II

Sheet: 4 Sheets: 6

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
18	JY4.735.1290n	Matching transformer		1	
19		Capacitor MEFO-2-500-0,5-n	0.5 mfd	1	
20	GOST 7113-66	Resistor MHT-0,5-150K±10%	150 kohms	1	
21	GOST 7113-66	Resistor MHT-0,5-3,9K±10%	3.9 kohms	1	
24	GOST 11155-65	Capacitor CFM-4-250-P-0,01±10%	0.01 mfd	1	
25		Capacitor MEFO-2-500-0,5-n	0.5 mfd	1	
26	GOST 6113-59	Capacitor GSP-M-100-0,02±10%	0.02 mfd	1	
27	GOST 7113-66	Resistor MHT-0,5-9,1K±10%	9.1 kohms	1	
28	GOST 7113-66	Resistor MHT-0,5-15K±10%	15 kohms	1	
29		Tube 6H1E-23		1	
30	GOST 7113-66	Resistor MHT-0,5-480K±10%	480 kohms	1	
31	GOST 11155-65	Capacitor CFM-4-250-P-0,01±10%	0.01 mfd	1	
32	GOST 7113-66	Resistor MHT-0,5-100K±10%	100 kohms	1	
33	GOST 7113-66	Resistor MHT-1-620±10%	620 ohms	1	
Common Parts					
2		Resistor CHO-2-3,3K-00-3-20±20%	3.3 kohms	1	
3		Resistor CHO-2-470-00-3-20±20%	470 ohms	1	
4		Switch 3H 6H-K13		1	
5	GOST 5574-65	Resistor II CH-1V <u>0,5-A-470k 30%</u> 1-A-470k 30%	470 kohms	1	

JY2.039.033 A

Sheet: 5 Sheets: 6

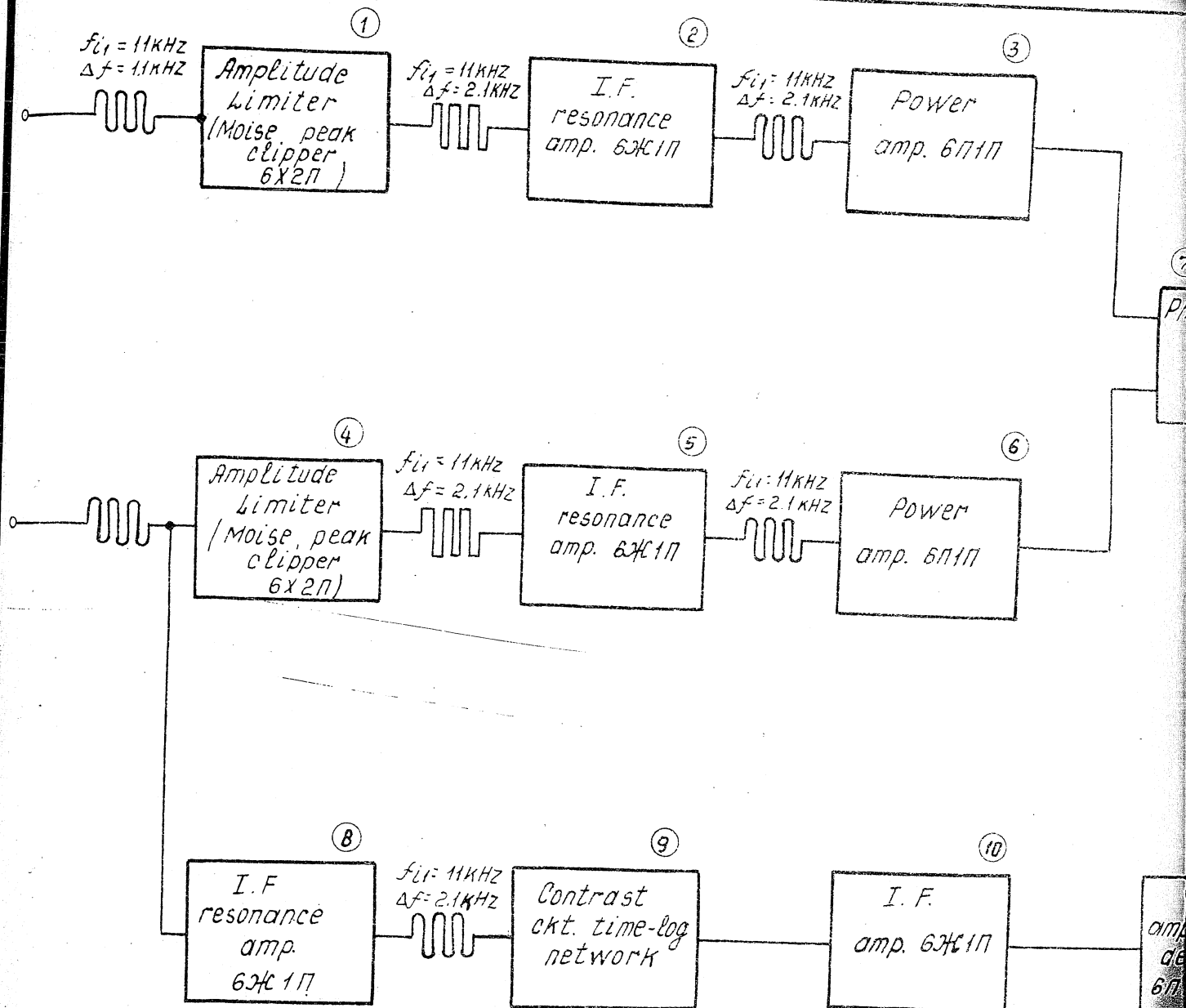
Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
6,7		Resistor MRT-0,5-1K±10%	1 kohm	2	
8,9		Capacitor MFTO-2-100-0-40	4 mfd	2	
11,12	17.531.006	Jack	2		
13	18.534.042	Jumper		1	
14		Switch T1		1	
15	19.735.2220n	Shielding transformer		1	
16		Resistor CPO-2-100K-00-5-20±20%	100 kohms	1	
17	GOST 7113-66	Resistor MRT-0,5-330K±10%	330 kohms	1	
18	GOST 5010-53	Fuse FN-45-2	2 A	1	
19		Lamp MH-3		1	
20	GOST 7113-66	Resistor MRT-2-20K±10%	20 kohms	1	
21, 22	19.735.2220n	Transformer T1 1632	N-type core 16x32	2	
23		Terminal block NO4-6	6-term.	1	
24, 25		Terminal block NO4-10	10-term.	2	
26-29	GOST 6118-59	Capacitor KFT-M-200-0-03±10%	0.03 mfd	4	
30		Capacitor BPH-6-300/10-M	10 mfd	1	
31	GOST 7113-66	Resistor MRT-0,5-9,1K±10%	9.1 kohms	1	
32		Capacitor BPH-6-300/10-M	10 mfd	1	
33	GOST 7113-66	Resistor MRT-0,5-9,1K±10%	9.1 kohms	1	
34	GOST 7113-66	Resistor MRT-0,5-4,3K±10%	4.3 kohms	1	

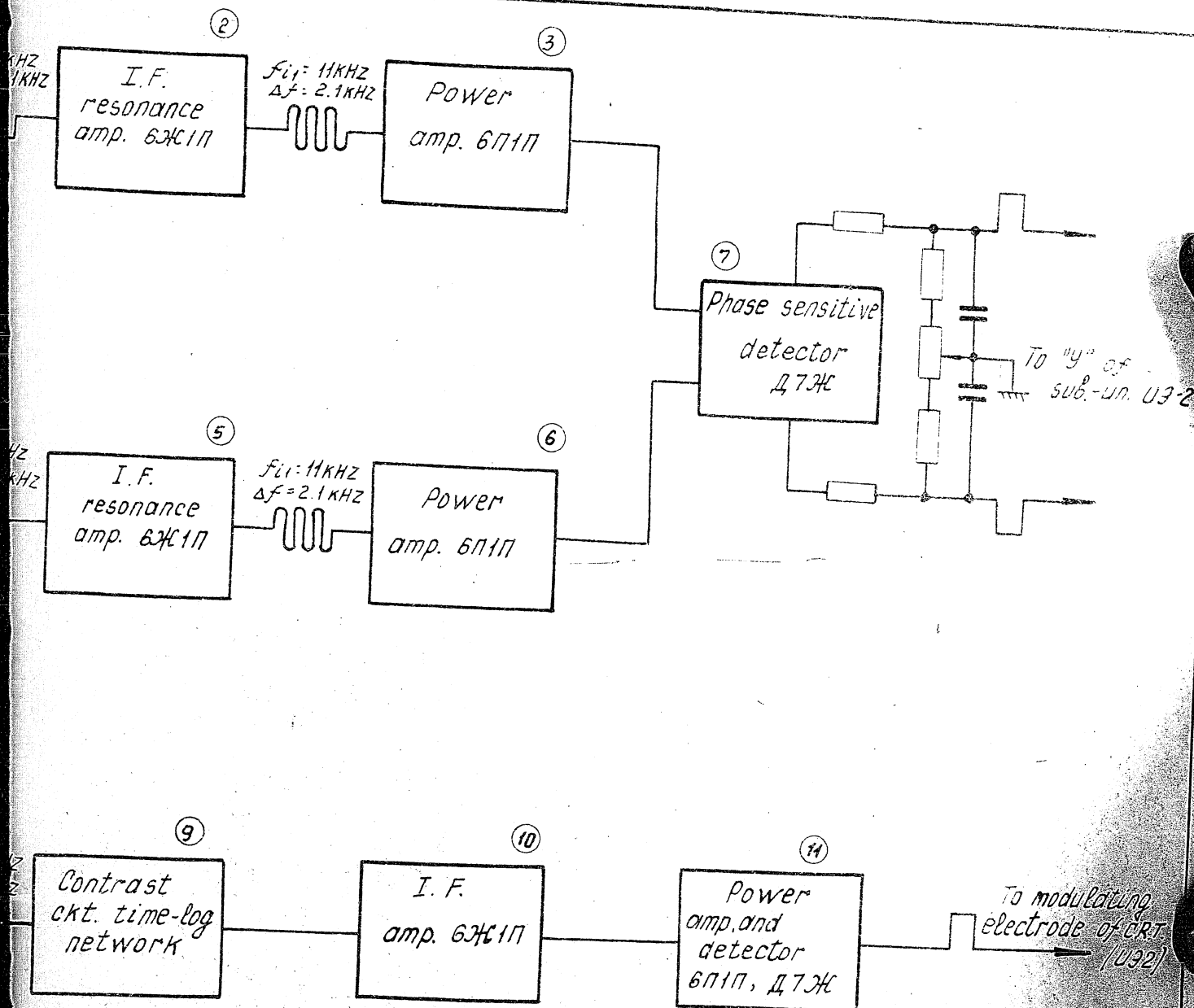
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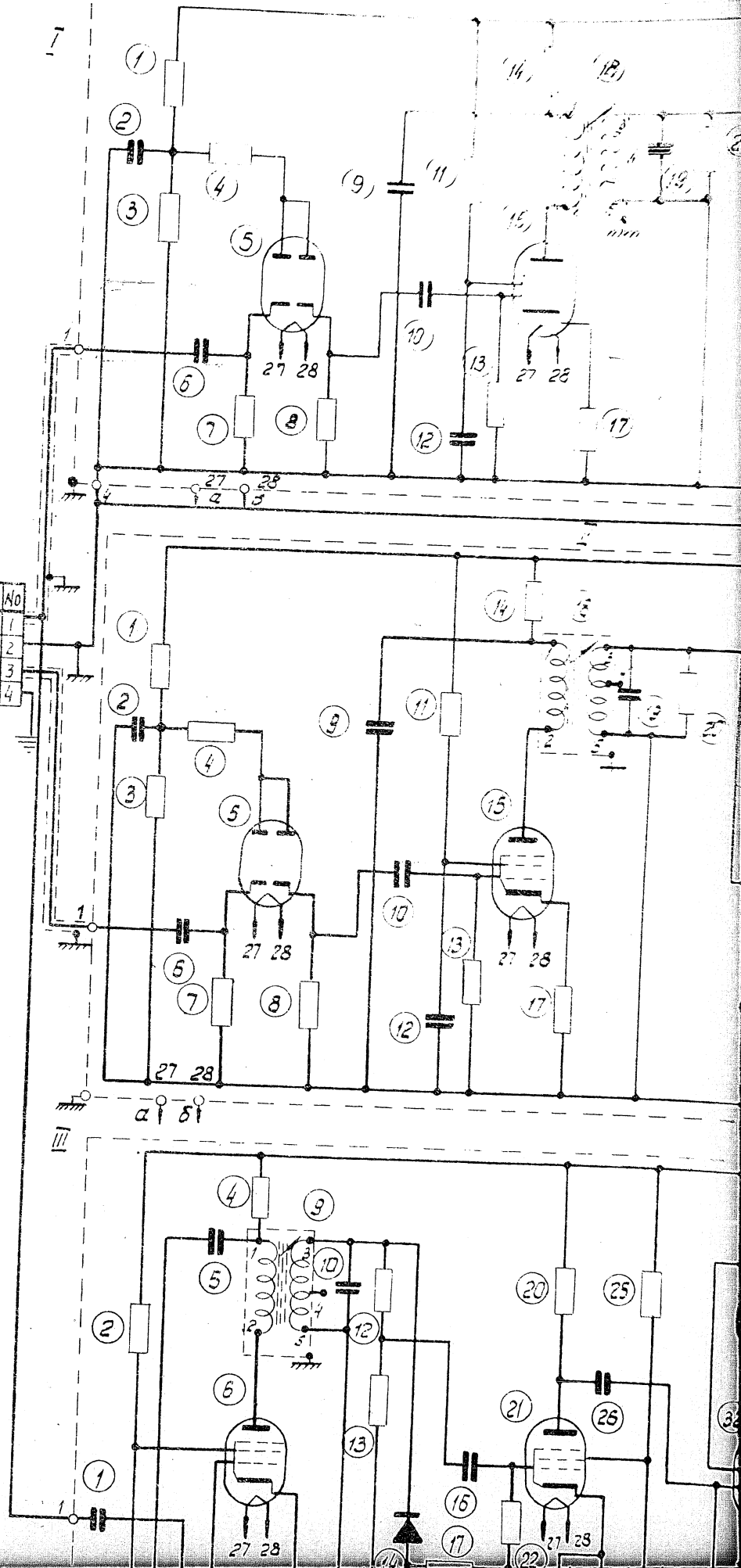
Sub. unit 4C-4	
Functional Diagram	
Sheet: 1	Sheets: 1

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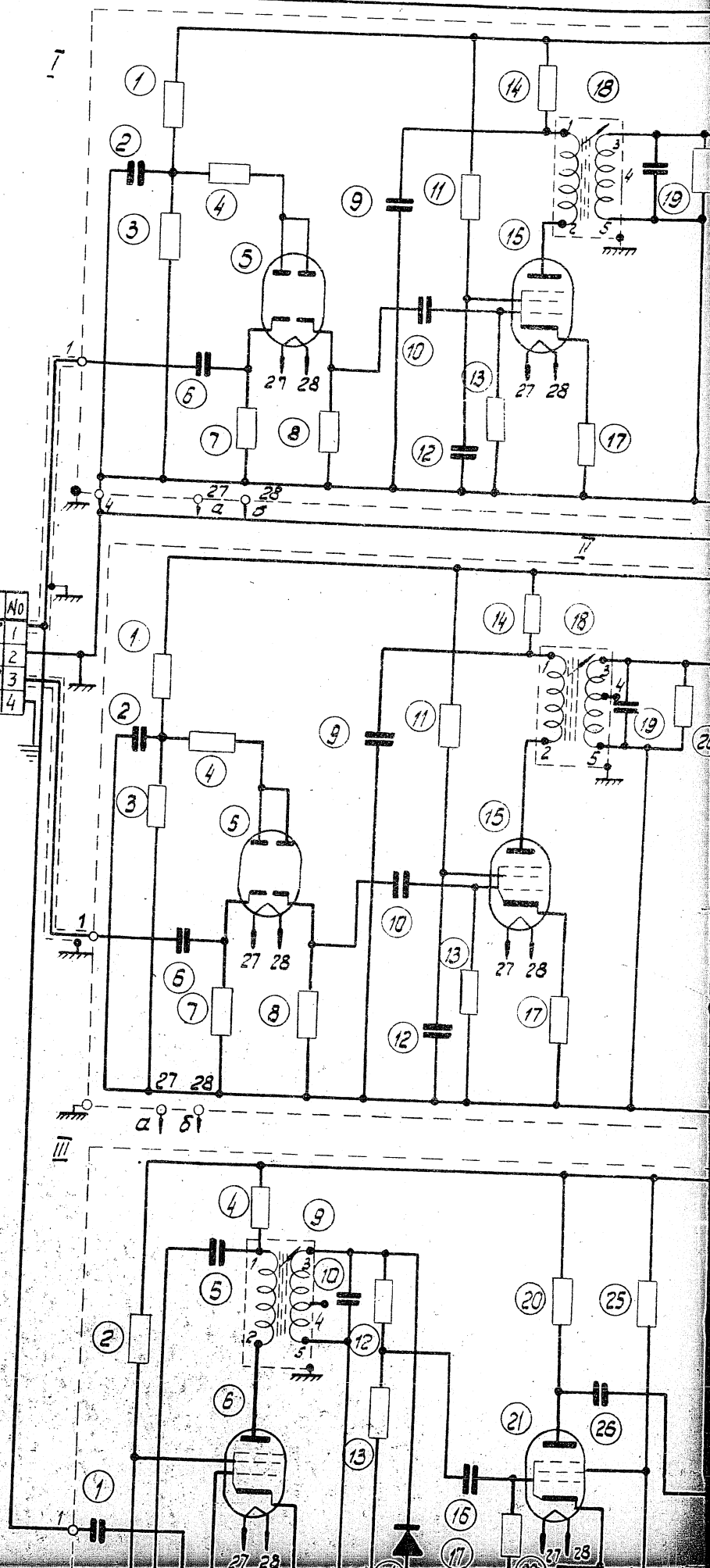
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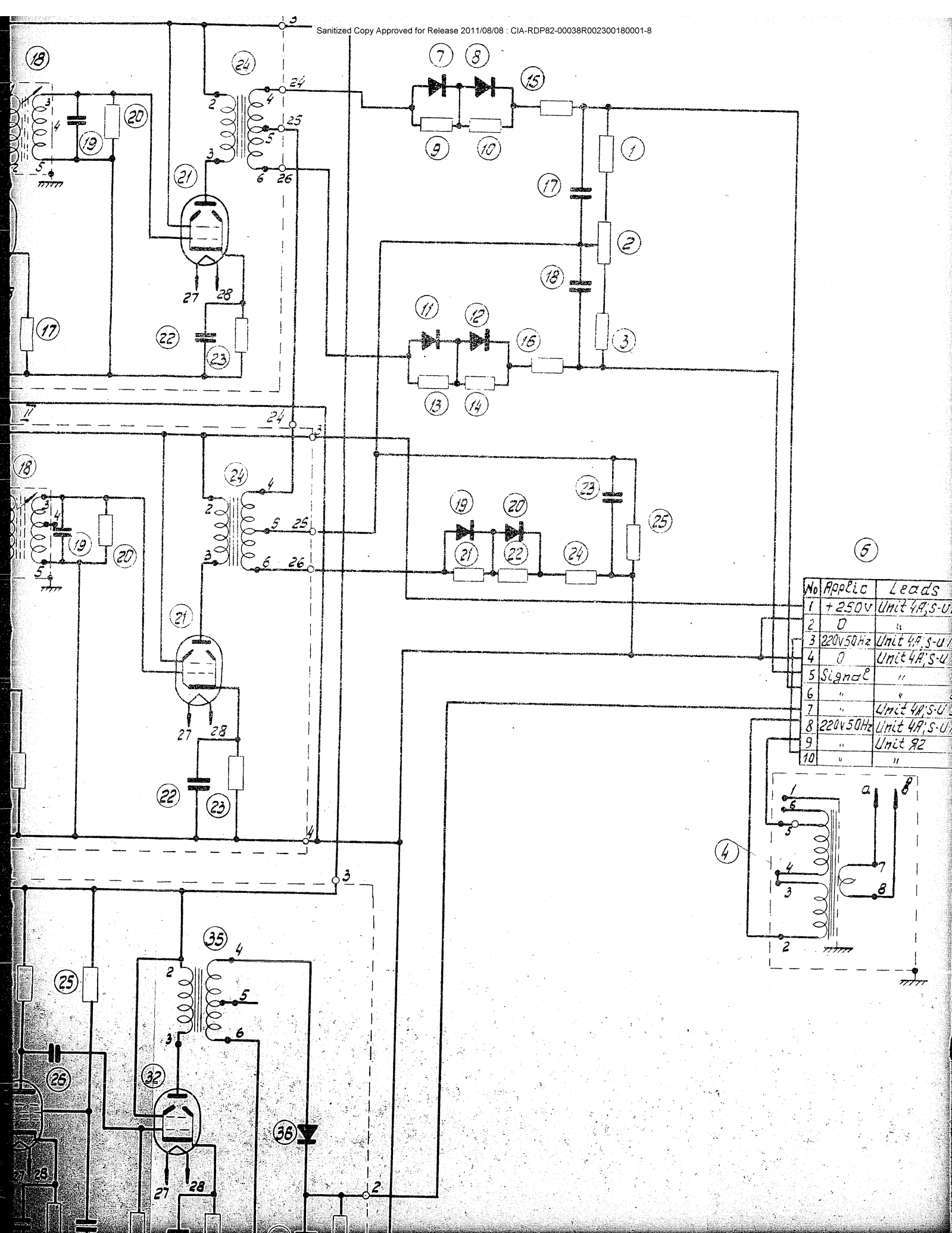
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	Un. 4A'S-UYC-2	24/10 Signal	1
	"	24/9 0	2
	Unit 4'S-UYC-2	24/8 Signal	3
	Unit 4A	9/10 Body	4



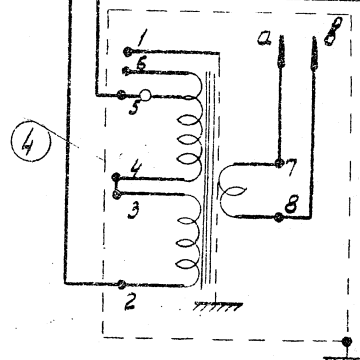
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Via	Leads to	App'n	No
	Unit 4A S-UYC-2	24/10	Signal 1
	"	24/9	" 2
	Unit 4 S-UYC-2	24/8	Signal 3
	Unit 4A	9/10	Body 4



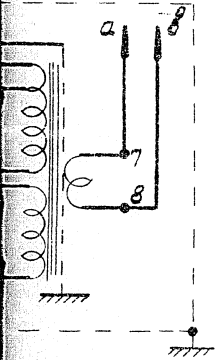


No	Applic	Leads
1	+250v	Unit 4A'S-U
2	0	"
3	220v 50Hz	Unit 4A'S-U
4	0	Unit 4A'S-U
5	Signal	"
6	"	"
7	"	Unit 4A'S-U
8	220v 50Hz	Unit 4A'S-U
9	"	Unit 92
10	"	"



(5)

No	Applic	Leads to	Via
1	+250V	Unit 4A, S-UBA-2B1 40/1	
2	0	" " 40/2	
3	220V 50Hz	Unit 4A, S-UY-2 31/5	
4	0	Unit 4A, S-U 43-2 96/5	
5	Signal	" " 95/5	
6	"	" " 95/6	
7	"	Unit 4A, S-UYC-2 25/6	
8	220V 50Hz	Unit 4A, S-UY-2 31/10	
9	"	Unit 92 2/6	S-UYC-2 23/2, Unit 4A 1/1
10	"	" 2/7	" 23/3, " 1/2

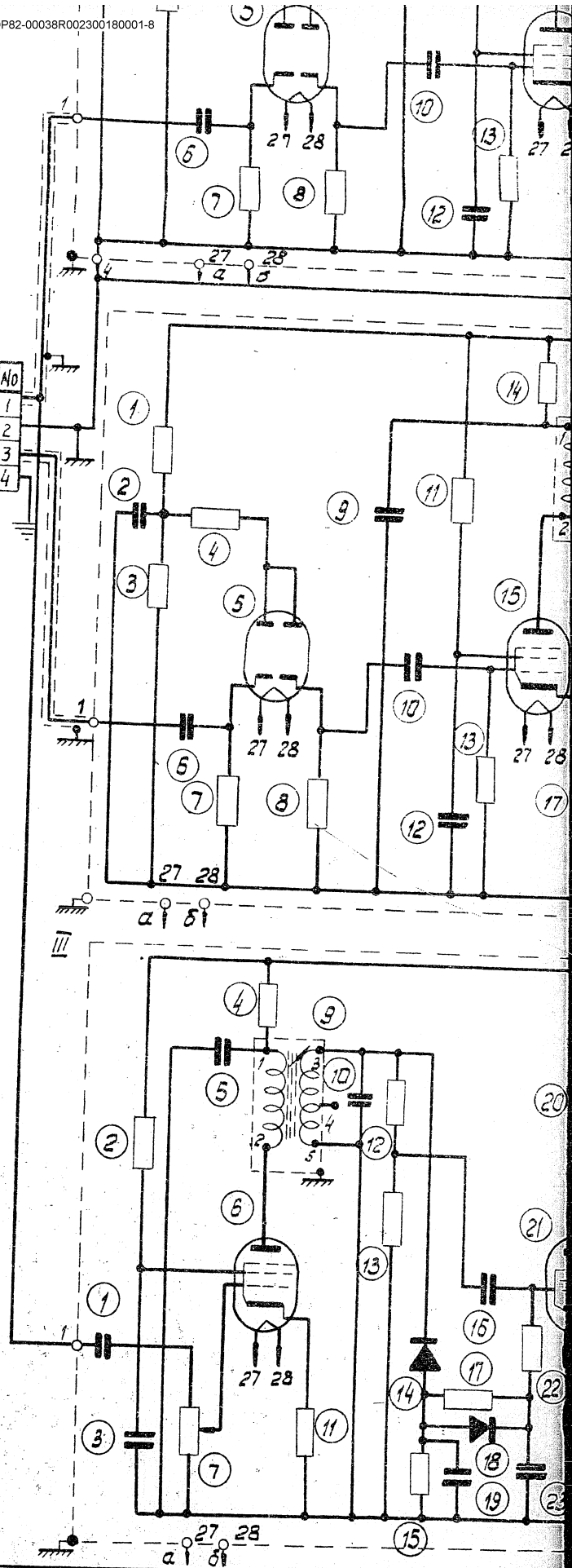


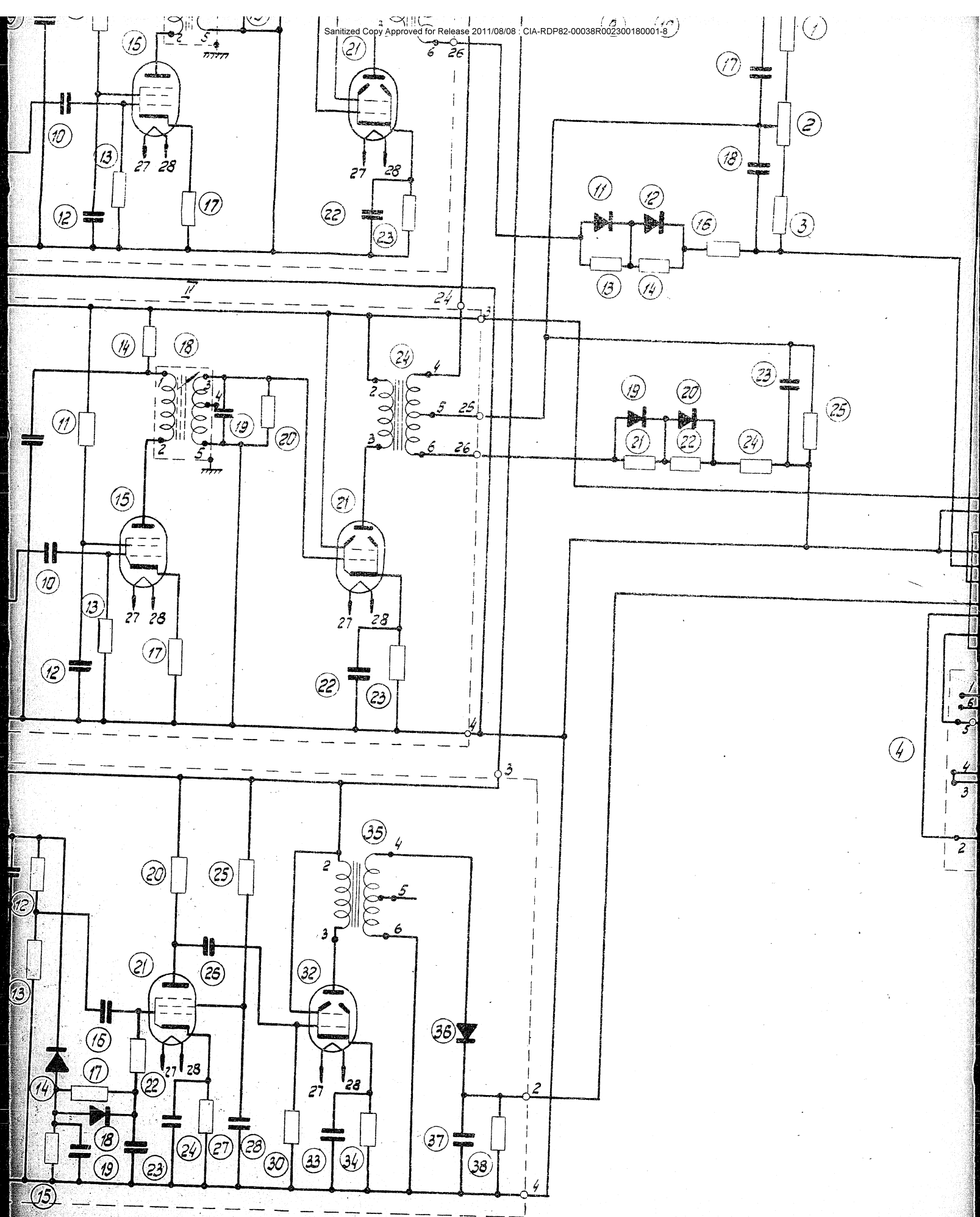
For Parts List, see NY2 039 057 A

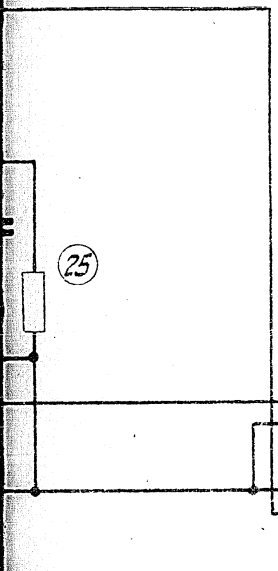
SUB - Unit YC-4

⑥

Via	Leads to	App'n	No
Unit 4A, S-UYC-2	24/10	Signal	1
"	24/9	"	2
Unit 4, S-UYC-2	24/8	Signal	3
Unit 4A	9/10	Body	4

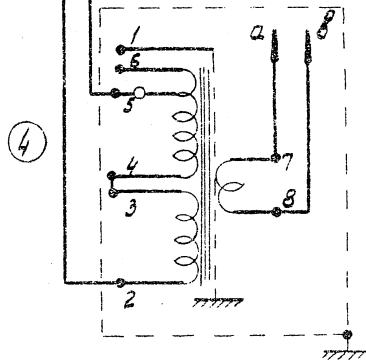






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No	Applic	Leads to	Via
1	+250v	Unit 4A, S-UBN-281 40/1	
2	0	" " 40/2	
3	220v 50Hz	Unit 4A, S-UYC-2 31/9	
4	0	Unit 4A, S-U 43-2 96/5	
5	Signal	" " 95/5	
6	"	" " 95/6	
7	"	Unit 4A, S-UYC-2 25/6	
8	220v 50Hz	Unit 4A, S-UYC-2 31/10	
9	"	Unit 92 2/6	S-UYC-2 23/2, Unit 4A 1/1
10	"	" 2/7	" 23/3, " 1/2



For Parts List, see 1142.039.05

SUB-unit 9C-4
Elementary
circuit
diagram

Leads to	Via
Net 4A, S-UBN-2B1 40/1	
" " 40/2	
Net 4A, S-UNY-2 31/9	
Net 4A, S-U 43-2 95/5	
" " 95/5	
" " 95/6	
Net 4A, S-U YC-2 23/6	
Net 4A, S-UNY-2 31/10	
Net 82 2/6	S-UYC-2 23/2, UH 4A 1/1
" 2/7	" 23/3, " 1/2

For Parts List, see NY2039.057A

SUB-unit YC-4	
Elementary circuit diagram	
NY2039.057C x 3	
Sheet: 1	Sheets: 1

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
	ИВ2.008.014	Assembly I, II			
1	GOST 7113-66	Resistor MHT-0,5-180K $\pm$ 10%	180 kohms	1	
2	GOST 6118-59	Capacitor KEP-M-100-0,02 $\pm$ 10%	0.02 mfd	1	
3	GOST 7113-66	Resistor MHT-0,5-33K $\pm$ 10%	33 kohms	1	
4	GOST 7113-66	Resistor MHT-0,5-1K $\pm$ 10%	1 Kohm	1	
5		Tube 6AN6-EB		1	
6	GOST 6118-59	Capacitor KEP-M-100-0,02 $\pm$ 10%	0.02 mfd	1	
7, 8	GOST 7113-66	Resistor MHT-0,5-7,5K $\pm$ 10%	7.5 kohms	2	
9	GOST 6118-59	Capacitor KEP-M-100-0,05 $\pm$ 10%	0.05 mfd	1	
10	GOST 11155-65	Capacitor GV-1-250-F-3 200 $\pm$ 10%	8200 pF	1	Parts
11	GOST 7113-66	Resistor MHT-0,5-300K $\pm$ 10%	300 kohms	1	for
12	GOST 6118-59	Capacitor KEP-M-100-0,05 $\pm$ 10%	0.05 mfd	1	one
13	GOST 7113-66	Resistor MHT-0,5-51K $\pm$ 10%	51 kohms	1	assem-
14	GOST 7113-66	Resistor MHT-0,5-36K $\pm$ 10%	36 kohms	1	bly
15		Tube 6AN6-EB		1	
17	GOST 7113-66	Resistor MHT-0,5-270 $\pm$ 10%	270 ohms	1	
18	ИВ4.735.1290П	Matching transformer CB-5A		1	
19	GOST 11155-65	Capacitor GV-3-500-F-3900 $\pm$ 10%	3900 pF	1	
SUB-UNIT VC 4					
Parts List					
			ИВ2.039.057 Д		
			Sheet: 1	Sheets: 4	

Item No.	Standard, Spec. or DWG. No.	Name, type	Value	No.	Remark
20	GOST 7113-66	Resistor MHT-0,5-27K±10%	27 kohms	1	
21		Tube 6H1W-EE		1	
22		Capacitor MSTN-2-500-0,5-1	0.5 mfd	1	
23	GOST 7113-66	Resistor MHT-0,5-330±10%	330 ohms	1	
24	IV4.735.1260n	Matching transformer S-type core 12x12		1	
	IV2.068.015	Assembly III			
1	GOST 6115-59	Capacitor KBT-M-200-0,02±10%	0.02 mfd	1	
2	GOST 7113-66	Resistor MHT-0,5-240±10%	240 kohms	1	
3	GOST 6115-59	Capacitor KBT-M-400-0,05±10%	0.05 mfd	1	
4	GOST 7113-66	Resistor MHT-0,5-36K±10%	36 kohms	1	
5	GOST 6115-59	Capacitor KBT-M-400-0,05±10%	0.05 mfd	1	
6		Tube 6H1W-EE		1	
7		Resistor CHO-2-47K±20% 00-3-20	47 kohms	1	
8	IV4.735.1290n	Matching transformer		1	
10	GOST 11155-65	Capacitor CFM-3-500-1-3900±10%	3900 pF	1	
11	GOST 7113-66	Resistor MHT-0,5-1K±10%	1 kohm	1	
12	GOST 7113-66	Resistor MHT-0,5-27K±10%	27 kohms	1	
13	GOST 7113-66	Resistor MHT-0,5-3,9K±10%	3.9 kohms	1	
14		Diode Д 209		1	

IV2.039.057 A

Sheet: 2 sheets: 4

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
15	GOST 7113-66	Resistor MRT-0,5-33K $\pm$ 10%	33 kohms	1	
16	GOST 11135-65	Capacitor CT-1-50-F-8200 $\pm$ 10%	8200 pF	1	
17	GOST 7113-66	Resistor MRT-0,5-1,0K $\pm$ 10%	1 Mohm	1	
18		Diode 1 209		1	
19	GOST 6118-59	Capacitor KST-M-200-0,1 $\pm$ 10%	0.1 mfd	1	
20	GOST 7113-66	Resistor MRT-0,5-16K $\pm$ 10%	16 kohms	1	
21		Tube 6X1P-2B		1	
22	GOST 7113-66	Resistor MRT-0,5-51K $\pm$ 10%	51 kohms	1	
23		Capacitor MBFO-2-300-1-R	1 mfd	1	
24	GOST 6118-59	Capacitor KST-K-200-0,1 $\pm$ 10%	0.1 mfd	1	
25	GOST 7113-66	Resistor MRT-0,5-68K $\pm$ 10%	68 kohms	1	
26	GOST 6118-59	Capacitor KST-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
27	GOST 7113-66	Resistor MRT-0,5-220 $\pm$ 10%	220 ohms	1	
28	GOST 6118-59	Capacitor KST-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
29	GOST 7113-66	Resistor MRT-0,5-51K $\pm$ 10%	51 kohms	1	
32		Tube 6H18-EB		1	
33		Capacitor MBFO-2-300-0,5-R	0.5 mfd	1	
34	GOST 7113-66	Resistor MRT-2-330 $\pm$ 10%	330 ohms	1	
35	JV4.725.1260n	Matching transformer	B-type core 12x12	1	

JV2.009.057 A

Sheet: 3 Sheets: 4

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
36		Diode A 226		1	
37	GOST 6118-59	Capacitor KBP-W-400-0,015±10%	0.015 mfd	1	
38	GOST 7113-66	Resistor MHT-1-47K±10%	47 kohms	1	
		Common Parts			
1	GOST 7113-66	Resistor MHT-2-200K±5%	200 kohms	1	
2		Resistor GHT-2-100K±10% 90-3-20	100 kohms	1	
3	GOST 7113-66	Resistor MHT-2-200K±5%	200 kohms	1	
4	ЭНН.700.00500	Transformer Tp 1632		1	
5		Terminal block RC4-10	4-term.	1	
6		Terminal block RC4-10	10-term.	1	
7-8		Diode A 226		2	
9-10	GOST 7113-66	Resistor MHT-0,5-100K±10%	100 kohms	2	
11-12		Diode A 226		2	
13-14	GOST 7113-66	Resistor MHT-0,5-100K±10%	100 kohms	2	
15-16	GOST 7113-66	Resistor MHT-1-30K±10%	30 kohms	2	
17-18	GOST 6118-59	Capacitor KBP-W-400-0,03±10%	0.03 mfd	2	
19-20		Diode A 226		2	
21-22	GOST 7113-66	Resistor MHT-0,5-100K±10%	100 kohms	2	
23	GOST 6118-59	Capacitor KBP-W-400-0,03±10%	0.03 mfd	1	
24	GOST 7113-66	Resistor MHT-1-30K±10%	30 kohms	1	
25	GOST 7113-66	Resistor MHT-2-200K±10%	200 kohms	1	

ИY2.039.057 А

Sheet: 4 Sheets: 4

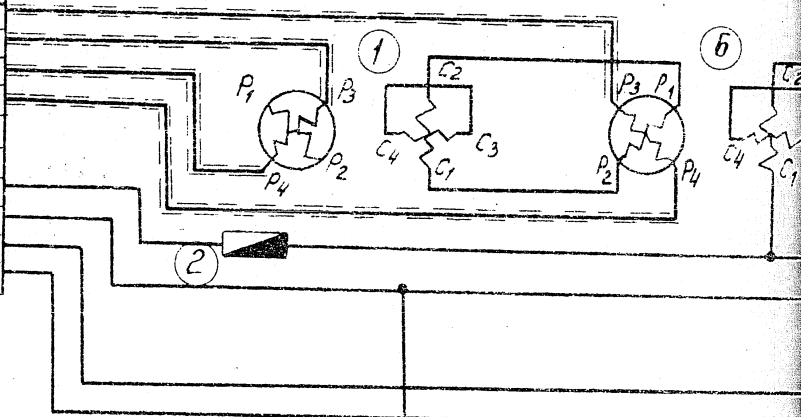
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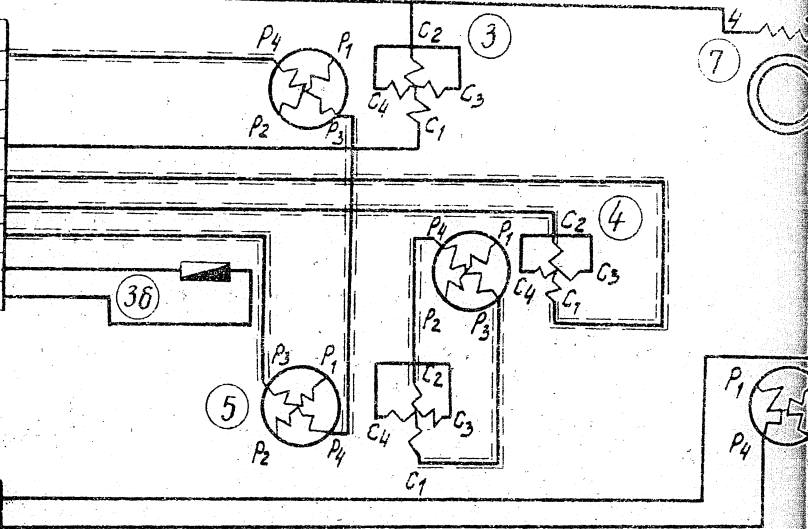
VLA	Leads to	APPLIC.	No
Unit 4A 3/1	Unit 4A 10/5	Signal LNK	1
" 5/10	Vert gyro	Data trans	2
" 5/9	"	"	3
" 3/2	Unit 4A 10/6	Signal LNK	4
			5
			6
Unit 4A 1/5	Unit 92 3/5	110V 500HZ	7
" 1/6	" 3/6	"	8
" 5/10	Unit 8 YC 13 6/1	ADN-1236 con	9
" 5/9	" 6/2	"	10

MBT 1



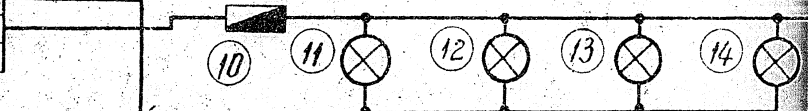
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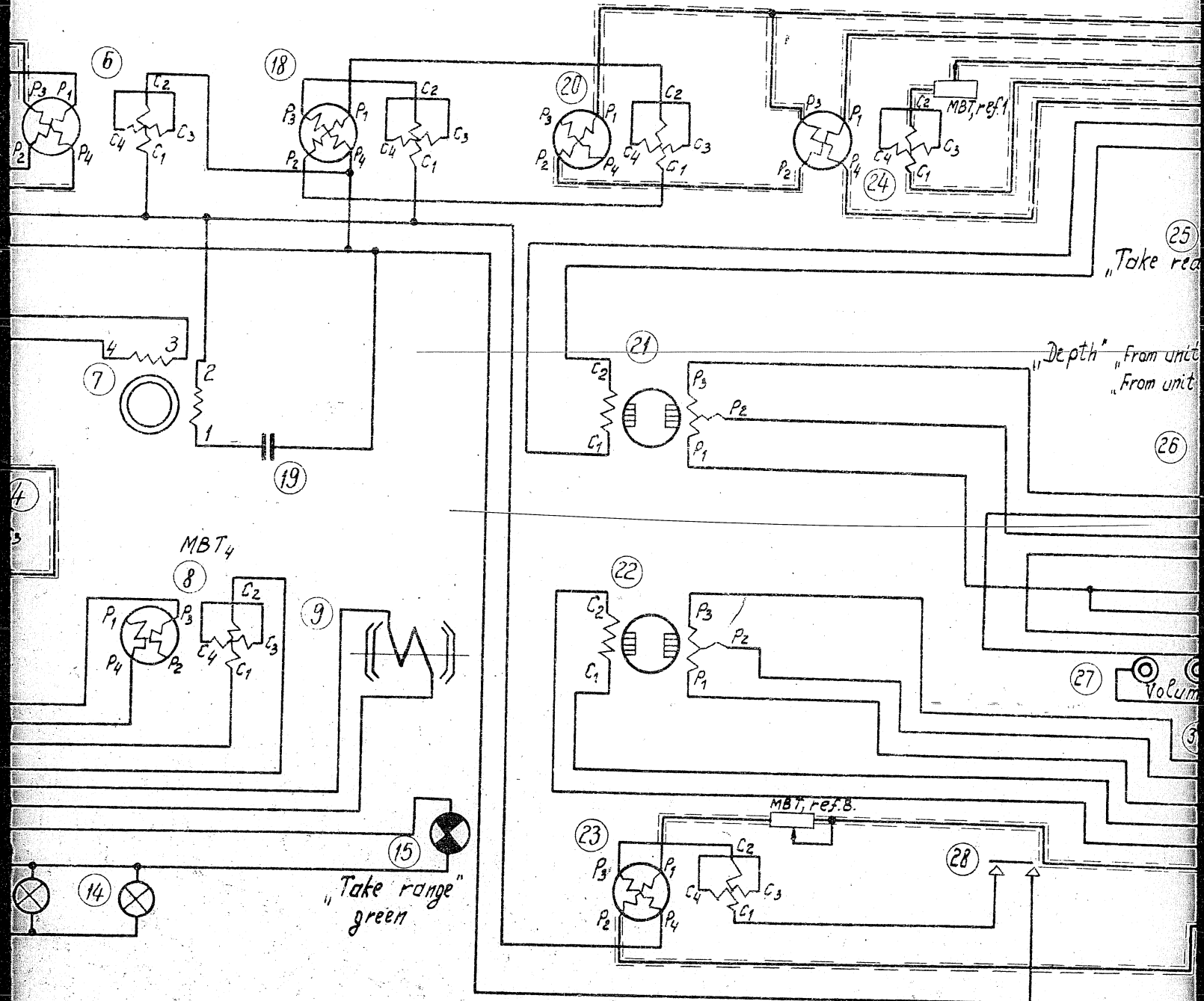
Unit 4A 10/1	Unit 25S-U 11/10	Data trans	1
			2
			3
			4
Unit 4A 10/8	Unit 25 4/6 2/3	110V 500HZ	5
" 10/2	Unit 25S-U 6K 5/7	Exc. MBT	6
" 10/3	" 5/8	Body	7
" 6/8	Unit 8 YC 11 6/5	Signal PNC	8
	YC 4 5/3	220V 50HZ	9
	YC 4 5/8	"	10



(32)

Unit 4A 9/1	Unit 1 5/8 3/4	Signal LNK	1
" 9/2	" 5/8 3/5	"	2
" 5/8	Vert. gyro	"	3
" 5/7	"	"	4
Unit 4A 1/10 S-UBM 6/4	Unit 92 4/10	- 110V	5
Unit 4A 12/2	Unit 7 5/7	Clutch con.	6
" 12/3	" 5/5	Signal LNK	7
" 2/1	Unit 92 5/3	26V 50HZ	8
" 2/2	" 5/4	"	9
			10





(33a)

No	Applic.	Leads to	Via
1	Body	Un. 8 YC13 6/4	Unit 4A 6/7
2	Signal PC	" 6/5	" 6/6
3	Range	Unit 7 45/9	" 12/4
4	"	" 45/10	" 12/5
5	A.G.C.	Un. 8 YC13 65/1	" 6/5
6	110V 50Hz	Fire contr. sys.	" 15/2
7	"	"	" 15/1

Parts List

Item No.	Standard, Spec Dwg. No.	Name, type
1	U6.713.354	Rotary transformer
2	GOST 5010-53	Fuse NK-45-1
3	U6.713.033	Rotary transformer
4	U6.713.354	" "
5	U6.713.255	" "
6	U6.713.229	" "
7	HU03.123.003	Electric motor AQ
8	U6.713.354	Rotary transformer
9	AK3.256.000	Magnetic clutch
10	GOST 5010-53	Fuse NK-45-1
11-15	N3371.00174	Lamp MH-17
18	U6.713.277	Rotary transformer
19	OKO.462.02274	Cap. MBN-2-200-1-
20	U6.713.355	Rotary transformer
21	AG.754.006	Selsyn 5D-501A
22	AG.753.009	Selsyn 5C-404A
23	U6.713.017	Rotary transformer
24	U6.713.254	"
25	HU0.360.606	Switch TN-1-2
26	HO.360.006	Switch 3N3H-K
27	AY6.672.087	Single-pole jack
28	AY6.130.014	Bracket with cont. as
30-35	HA3.656.003	Terminal block, type
36	GOST 5010-53	Fuse NK-45-2
37	OKO.468.0478	Resistor ONO-2-4,7k ±20%-OC-S-20

(25) Take reading OFF

(33b)

8	Control ckt	Unit 7A 133/7	Unit 4A 11/6
9	"	" 133/8	" 11/7
10	Signalling	Fire contr. sys.	" 15/4

From unit 4A
From unit 7A

(34a)

1	Signalling	Fire contr. sys.	Unit 4A 15/5
2	"	Unit 7A 133/9	" 11/8

(34b)

3	Data trans Phase 3	Fire contr. sys.	Unit 4A 15/6
4	Phase 2	"	" 15/7

(34c)

5	Data trans Phase 1	Fire contr. sys.	Unit 4A 15/8
6	Data trans	Unit 7A 133/4	" 11/9
7	"	" 133/5	" 11/10
8	"	" 133/6	" 11/5
9	Body	Un. 4 YC1A 15/9	" 3/3
10	Signal	" 15/6	" 3/4

(27) Volume

(35)

1	Monit Phase 3	Un. 1 cab. 3 con. 2	Unit 4A 9/3
2	Phase 2	" cab. 3 con. 2	" 9/4
3	Phase 1	" cab. 3 con. 3	" 9/5
4	110V 50Hz	Unit 82 6/3	" 1/7
5	"	" 6/4	" 1/8
6	Data trans	Unit 18 4/3	" 10/4
7			
8			
9	Data trans	Unit 18 4/4	Unit 4A 10/5
10			

SUB-unit NY-2
Elementary
circuit
diagram

Leads to	Via
Unit 8 64/6	Unit 4A 6/7
" 64/5	" 6/6
Unit 7 45/9	" 12/4
" 45/10	" 12/5
Unit 8 65/1	" 6/5
Fire contr. sys.	" 15/2
"	" 15/1

Unit 7A 133/7	Unit 4A 11/6
" 133/8	" 11/7
Fire contr. sys.	" 15/4

Fire contr. sys.	Unit 4A 15/5
Unit 7A 133/9	" 11/8

Fire contr. sys.	Unit 4A 15/6
"	" 15/7

Fire contr. sys.	Unit 4A 15/8
Unit 7A 133/4	" 11/9
" 133/5	" 11/10
" 133/6	" 11/5
Unit 4 15/9	" 3/3
" 15/6	" 3/4

Unit 1 64/3	Unit 4A 9/3
Unit 2 64/3	" 9/4
Unit 3 64/3	" 9/5
Unit 4 64/3	" 1/7
Unit 5 64/3	" 1/8
Unit 6 41/3	" 10/4
Unit 7 41/4	Unit 4A 10/5

Parts List

Item No.	Standard, Spec Dwg No	Name, type	Value	No	Remark
1	U6.713.354	Rotary transformer MBT		1	
2	GOST 5010-53	Fuse NK-45-1	1A	1	
3	U6.713.033	Rotary transformer CKBT		1	CP. 1
4	U6.713.354	" " MBT		1	
5	U6.713.255	" " CKBT		1	CP. 1
6	U6.713.229	" " CKBT		1	CP. 1
7	HU03.123.003	Electric motor AGN-123B		1	
8	U6.713.354	Rotary transformer MBT		1	
9	MX3.256.000C	Magnetic clutch	110V	1	
10	GOST 5010-53	Fuse NK-45-1	1A	1	
11-15	N3371.00174	Lamp MH-17	28V, 0.12A	5	
18	U6.713.277	Rotary transformer MBT		1	CP. 1
19	OKO.462.02274	Cap. MBT-2-200-1-1	1M, 200V	1	
20	U6.713.355	Rotary transformer MBT		1	
21	AB.754.006	Selsyn 5D-501A		1	
22	AB.753.009	Selsyn 5C-404A		1	
23	U6.713.017	Rotary transformer CKBT		1	CP. 2
24	U6.713.254	" " CKBT		1	CP. 1
25	HU0.360.606	Switch TN-1-2		1	
26	HO.360.006	Switch 3N3H-K	6A, 1A	1	
27	AY6.672.087	Single-pole jack		2	
28	AY6.130.014	Bracket with cont. as-ly	110V, 0.5A	1	
30-35	HU3.656.003C	Terminal block, type I	6A	6	
36	GOST 5010-53	Fuse NK-45-2	2A	1	
37	OKO.468.0474	Resistor CND-2-4.7k ±20% - OC-S-20	4.7k 2W	1	

SUB-unit NY-2

Elementary
circuit
diagram

142.596.003C x3

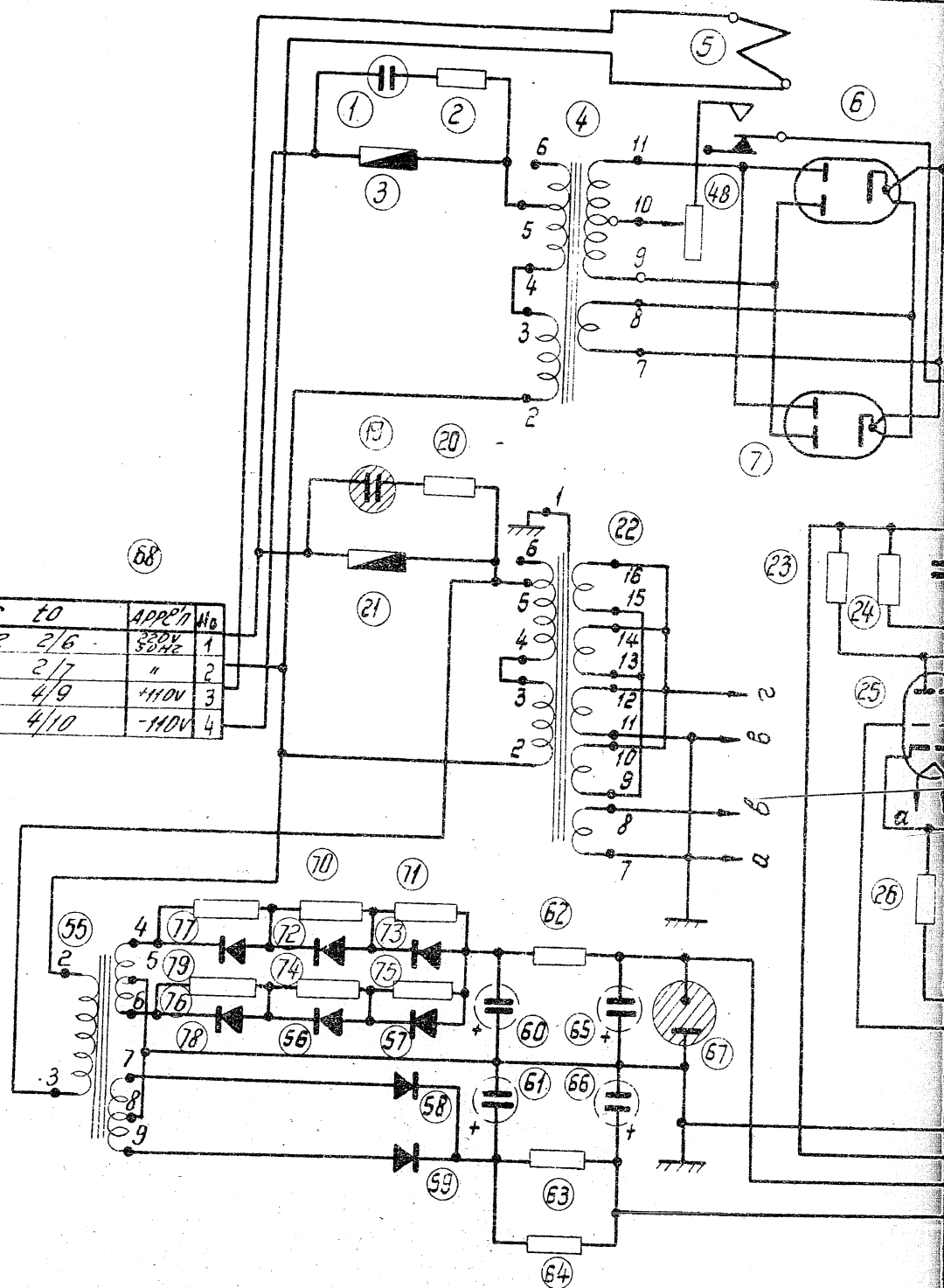
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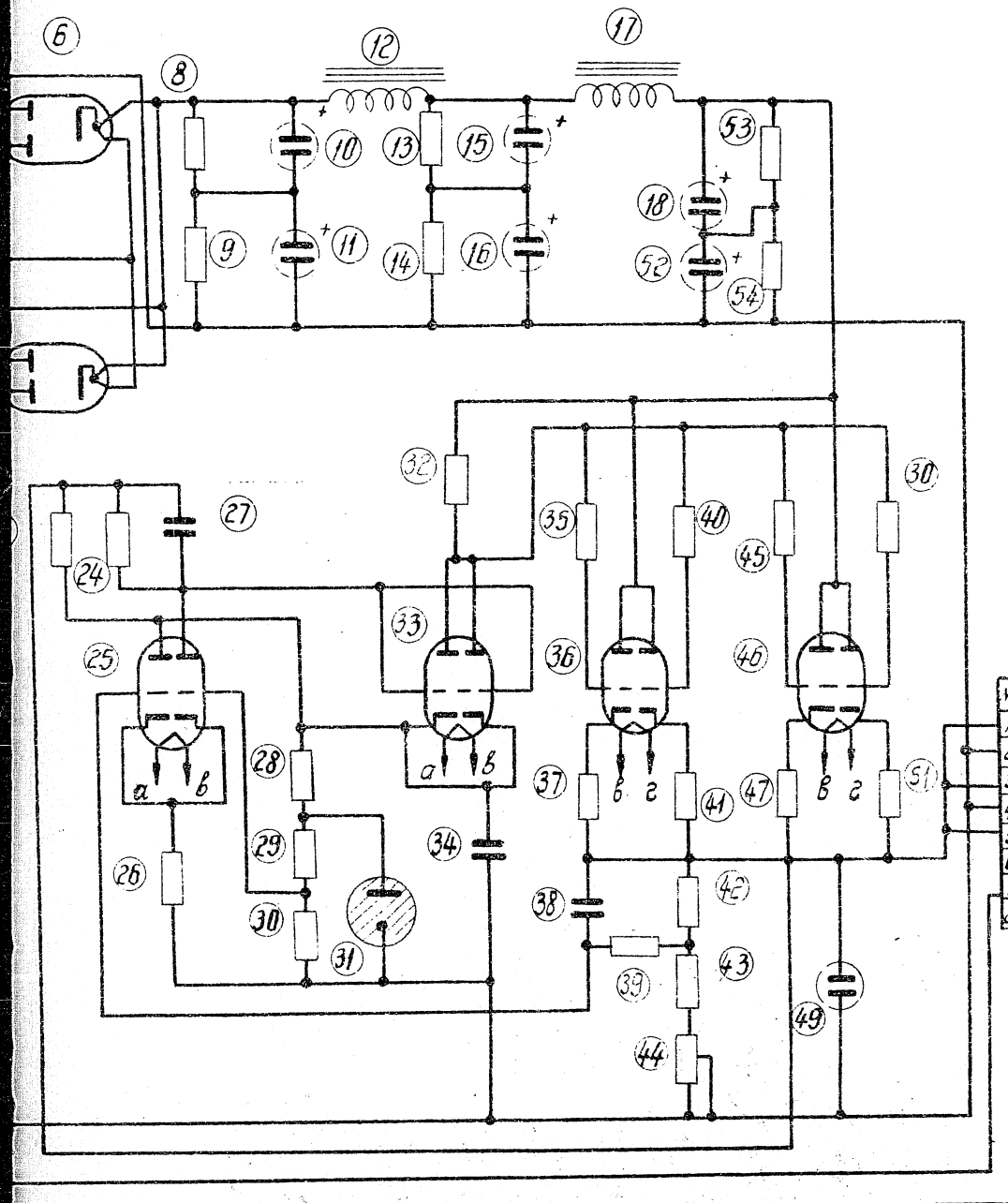
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VIA	Leads to	APPROX	Wt
Unit 4A 2/8; 1/1	Unit 92 2/6	220V 50Hz	1
Unit 4A 2/7; 1/2	" 2/7	"	2
Unit 4A 1/9	" 4/9	+110V	3
Unit 4A 1/10	" 4/10	-110V	4





69

No	App'l'n	Leads to	Via
1	+250V	Unit 4 S-U 9C1A 18/1	Unit 4A 4/1
2	0	" 18/2	" 4/1
3	+250V	Unit 4 S-U 9C3 32/10/3	" 5/1
4	0	Unit 4 S-U 9C3 18/14 Unit 4 S-U 9C1 32/13	" 5/1
5	+250V	Unit 4 S-U 9C1 32/4	" 4/1
6			
7	-110V	Unit 4 S-U 9C1 32/6	Unit 4A 4/1
8	+24V	Unit 4 S-U 9C1A 18/3	" 4/1



69			
Vo	App'l'n	Leads to	VCC
1	+250V	Unit 4 S-U 9C1A 18/1	Unit 4A
2	0	" " 18/2	"
3	+250V	Unit 4 S-U 9C3 C4 10/3	"
4	0	Unit 4 S-U 9C3 18/4 Unit 4 S-U 9C1 32/3	"
5	+250V	Unit 4 S-U 9C1 32/4	"
6			
7	-110V	Unit 4 S-U 9C1 32/6	Unit 4A
8	+24V	Unit 4 S-U 9C1A 18/3	"

	VIA	
1/1	Unit 4A	4/5
2/2	"	4/6
3/3	"	5/3
4/4	"	5/2
5/5	"	4/2
6/6	Unit 4A	4/4
7/7	"	4/7

For parts list, see 142087084A

sub-unit 871 circuit diagram	142087084Cx3	
	sheet: 1	sheet: 1

Item No.	Standard, Spec. or Eng. No.	Name, type	Value	No.	Remark
1		Lamp HL-3		1	
2	GOST 7113-66	Resistor MRT-2-33K±10%	33 kohms	1	
3	GOST 5040-55	Fuse BF-45-0.2	2 A	1	
4	НДН4.700.00900	Transformer Tr 4064-4	E-type core 40x64	1	
5		Relay RMR-PO4 22881/0n		1	
6,7		Tube 6X4C		2	
8,9	GOST 7113-66	Resistor MRT-1-100K±5%	100 kohms	2	
10, 11		Capacitor CTH-6-450/20-M	20 mfd	2	
12	НДН4.700.011	Choke Sp 3232	E-type core 32x32	1	
13, 14	GOST 7113-66	Resistor MRT-1-100K±5%	100 kohms	2	
15, 16		Capacitor CTH-6-450/20-M	20 mfd	2	
17	НДН4.700.011	Choke Sp 3232	E-type core 32x32	1	
18		Capacitor CTH-6-450/20-M	20 mfd	1	
19		Lamp HL-3		1	
20	GOST 7113-66	Resistor MRT-2-33K±10%	33 kohms	1	
21	GOST 5040-55	Fuse BF-45-0.5	0.5 A	1	
22	НДН4.700.00900	Transformer Tr-2040	E-type core 20x40	1	

SUB-UNIT BU 1

Parts List

JW2.087.054 A

Sheet: 1

Sheet: 4

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
23	GOST 7113-66	Resistor MNT-2-8,2K $\pm$ 10%	8.2 kohms	1	
24	GOST 7113-66	Resistor MNT-0,5-470K $\pm$ 10%	470 kohms	1	
25		Tube 6H21-EB		1	
26	GOST 7113-66	Resistor MNT-0,5-68K $\pm$ 10%	68 kohms	1	
27	GOST 6118-59	Capacitor KST-M-500-0,01 $\pm$ 10%	0.01 mfd	1	
28	GOST 7113-66	Resistor MNT-0,5-1,1K $\pm$ 10%	1.1 kohm	1	
29	GOST 7113-66	Resistor MNT-0,5-56K $\pm$ 10%	56 kohms	1	
30	GOST 7113-66	Resistor MNT-0,5-62K $\pm$ 10%	62 kohms	1	
31		Tube 6H21		1	
32	GOST 7113-66	Resistor MNT-0,5-560K $\pm$ 10%	560 kohms	1	
33		Tube 6H21-EB		1	
34	GOST 6118-59	Capacitor KST-M-400-0,05 $\pm$ 10%	0.05 mfd	1	
35	GOST 7113-66	Resistor MNT-0,5-560 $\pm$ 10%	560 ohms	1	
36		Tube 6H13C		1	
37	GOST 7113-66	Resistor MNT-2-120 $\pm$ 10%	120 ohms	1	
38	GOST 6118-59	Capacitor KST-M-400-0,2 $\pm$ 10%	0.2 mfd	1	
39	GOST 7113-66	Resistor MNT-0,5-470K $\pm$ 10%	470 kohms	1	
40	GOST 7113-66	Resistor MNT-0,5-560 $\pm$ 10%	560 ohms	1	
41	GOST 7113-66	Resistor MNT-2-120 $\pm$ 10%	120 ohms	1	

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Sheet: 2 Sheets: 4

Item No.	Standard, Spec. or Inv. No.	Name, type	Value	No.	Remark
42	GOST 7113-66	Resistor MHT-2-110Ω±10%	110 kohms	1	
43	GOST 7113-66	Resistor MHT-2-30Ω±10%	30 kohms	1	
44		Resistor GHO-2- 47k±20% GO-3-20	47 kohms	1	
45	GOST 7113-66	Resistor MHT-0.5-560±10%	560 ohms	1	
46		Tube 6H130		1	
47	GOST 7113-66	Resistor MHT-2-120±10%	120 ohms	1	
48	GOST 6513-62	Resistor EUSEP-30-240±10%	240 ohms	1	
49		Capacitor SPU-6-450/20-M	20 mfd	1	
50	GOST 7113-66	Resistor MHT-0.5-560±10%	560 ohms	1	
51	GOST 7113-66	Resistor MHT-2-120±10%	120 ohms	1	
52		Capacitor SPU-6-450/20-M	20 mfd	1	
53- 54	GOST 7113-66	Resistor MHT-1-100Ω±10%	100 kohms	2	
55	IV4.709.08108	Transformer		1	
56- 59		Diode A 226		4	
60		Capacitor SPU-6-450/20-M	20 mfd	1	
61		Capacitor SPU-6-150/20-M	20 mfd	1	
62	GOST 7113-66	Resistor MHT-2-2.7k±10%	2.7 kohms	1	
63, 64	GOST 7113-66	Resistor MHT-2-200±10%	200 ohms	2	
65		Capacitor SPU-6-300/20-M	20 mfd	1	
66		Capacitor SPU-6-150/20-M	20 mfd	1	

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Sheet: 3 Sheets: 4

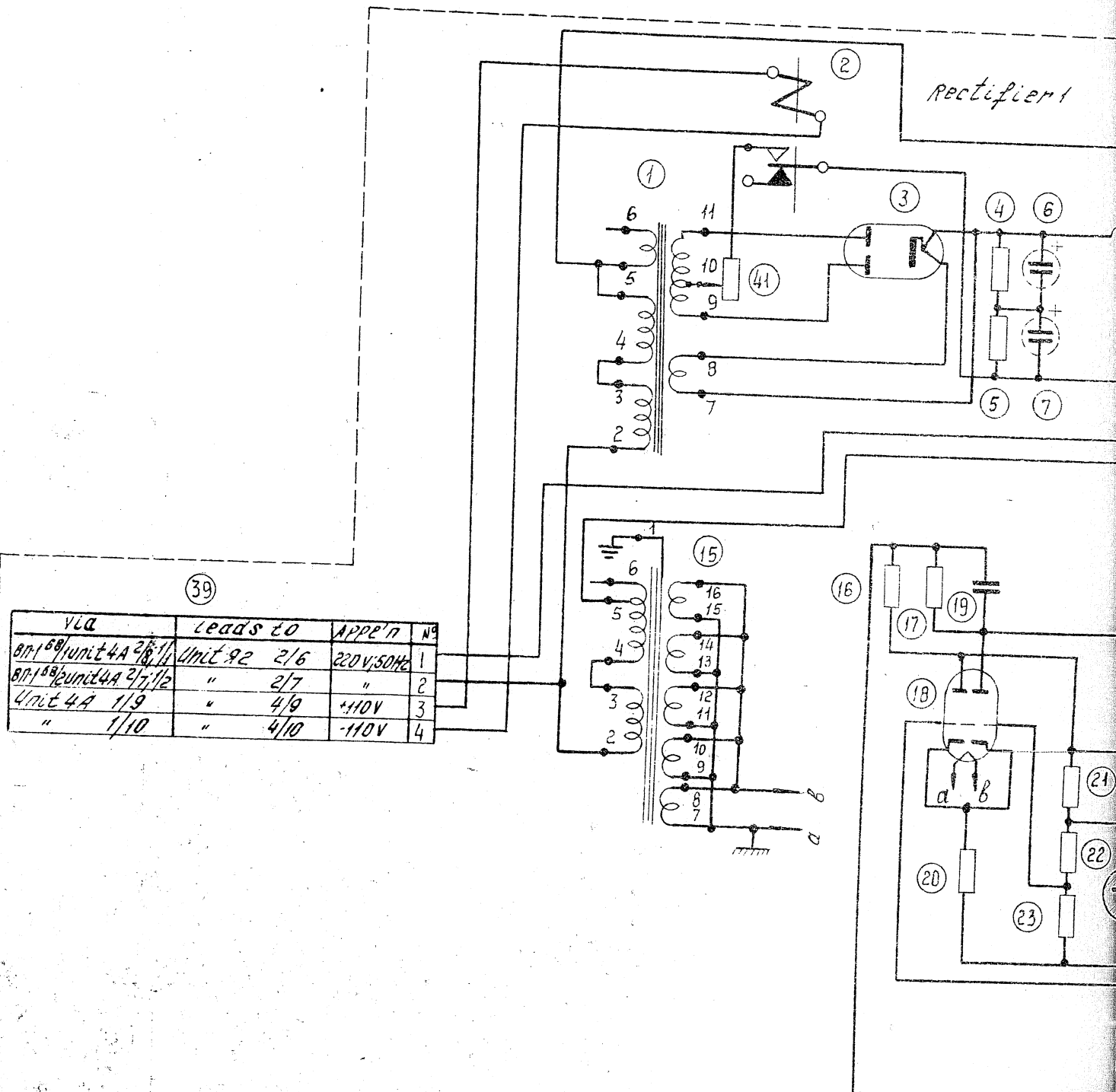
Item No.	Standard, Spec. or Org. No.	Name, type	Value	No.	Re-mark
67		Tube CR2H		1	
68		Terminal block	4-term.	1	
69		Terminal block	5-term.	1	
70,		Resistor	100 kohms	2	
71		MST-0,5-100Ω, 10%			
72,		Diode A 226		2	
73					
74,	GOST 7113-66	Resistor	100 kohms	2	
75		MST-0,5-100Ω, 10%			
76,	GOST 7113-66	Resistor	100 kohms	2	
77		MST-0,5-100Ω, 10%			
78,		Diode A 226		2	
79					

K2.087.084 II

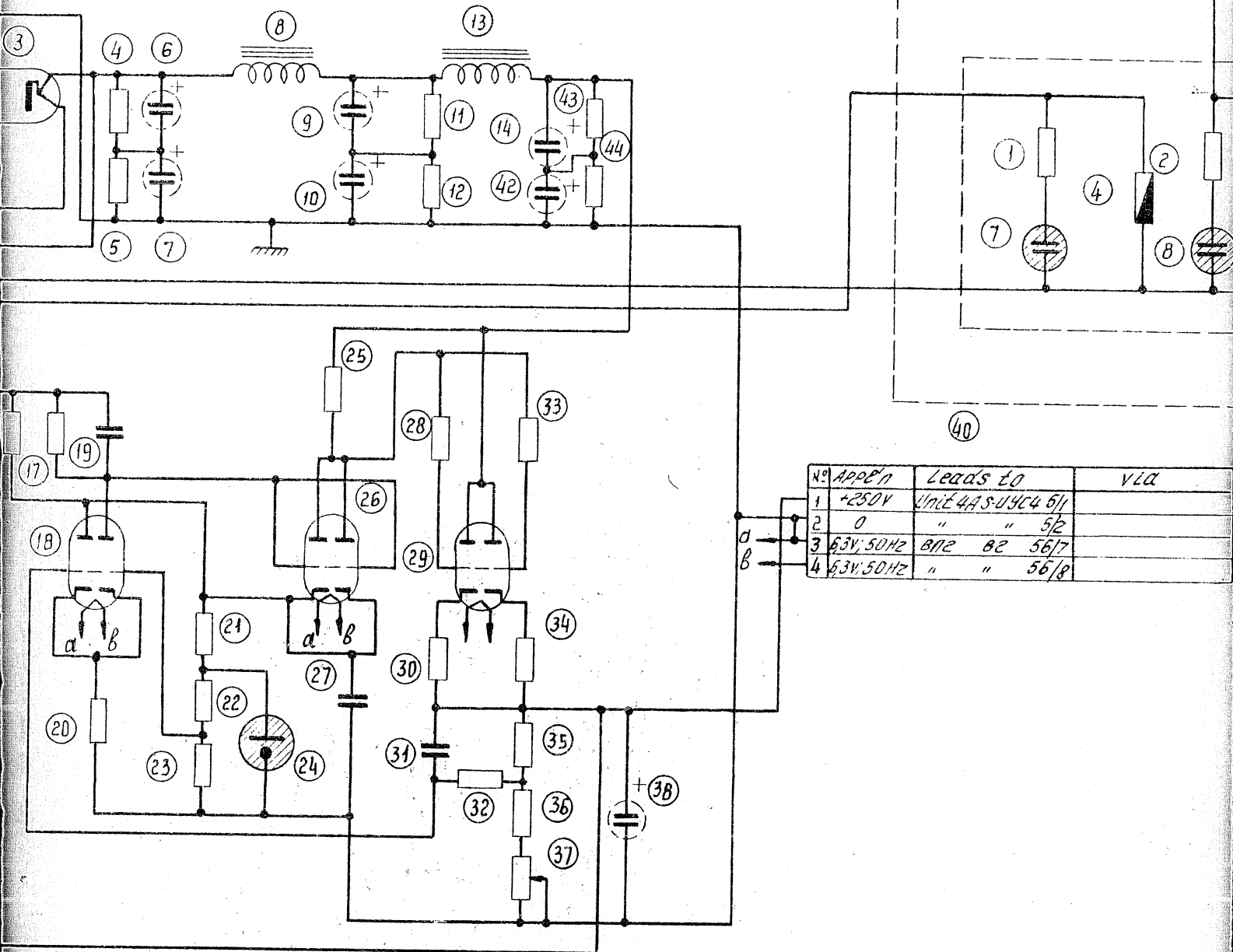
Sheet: 4 Sheets: 4

STAT

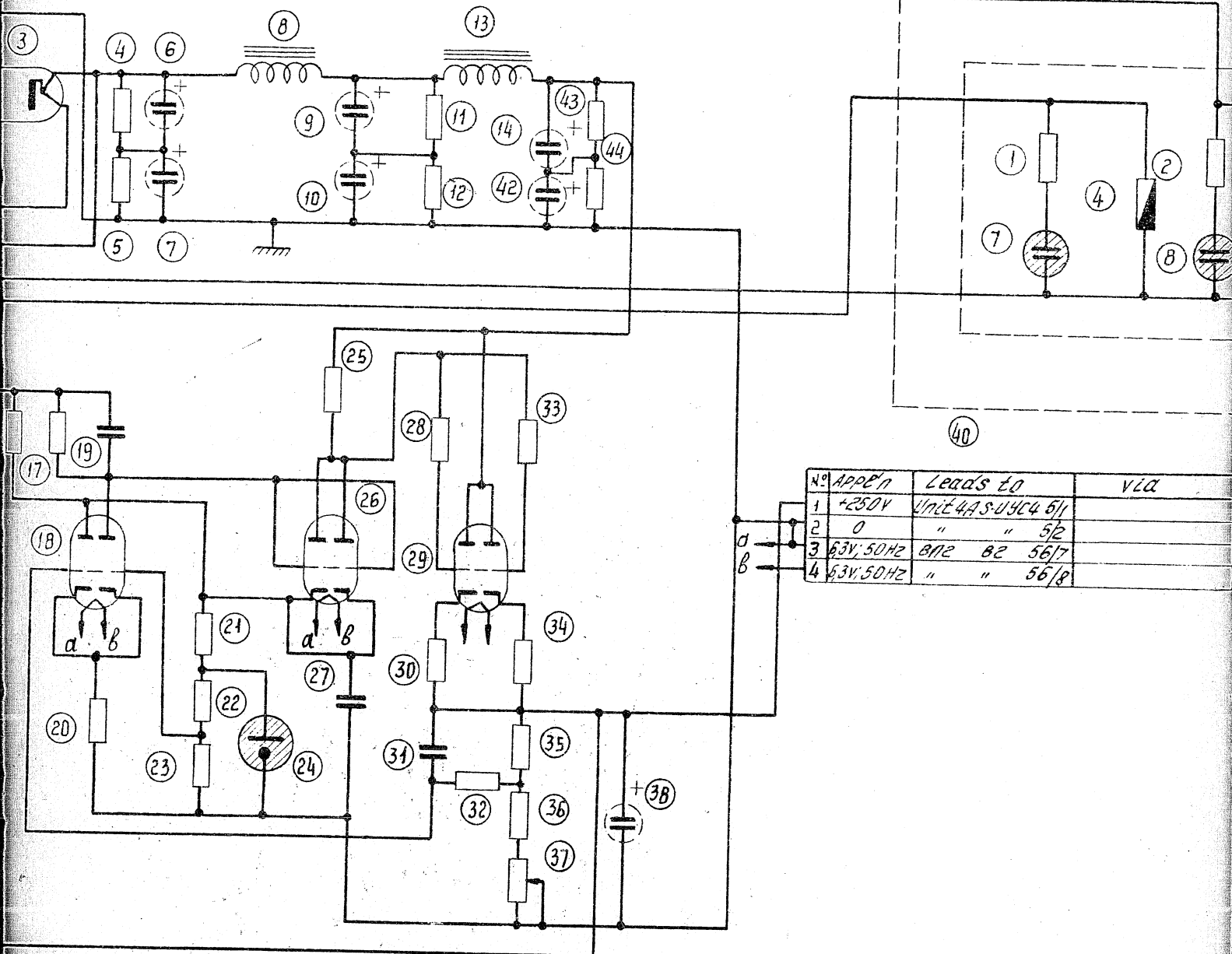
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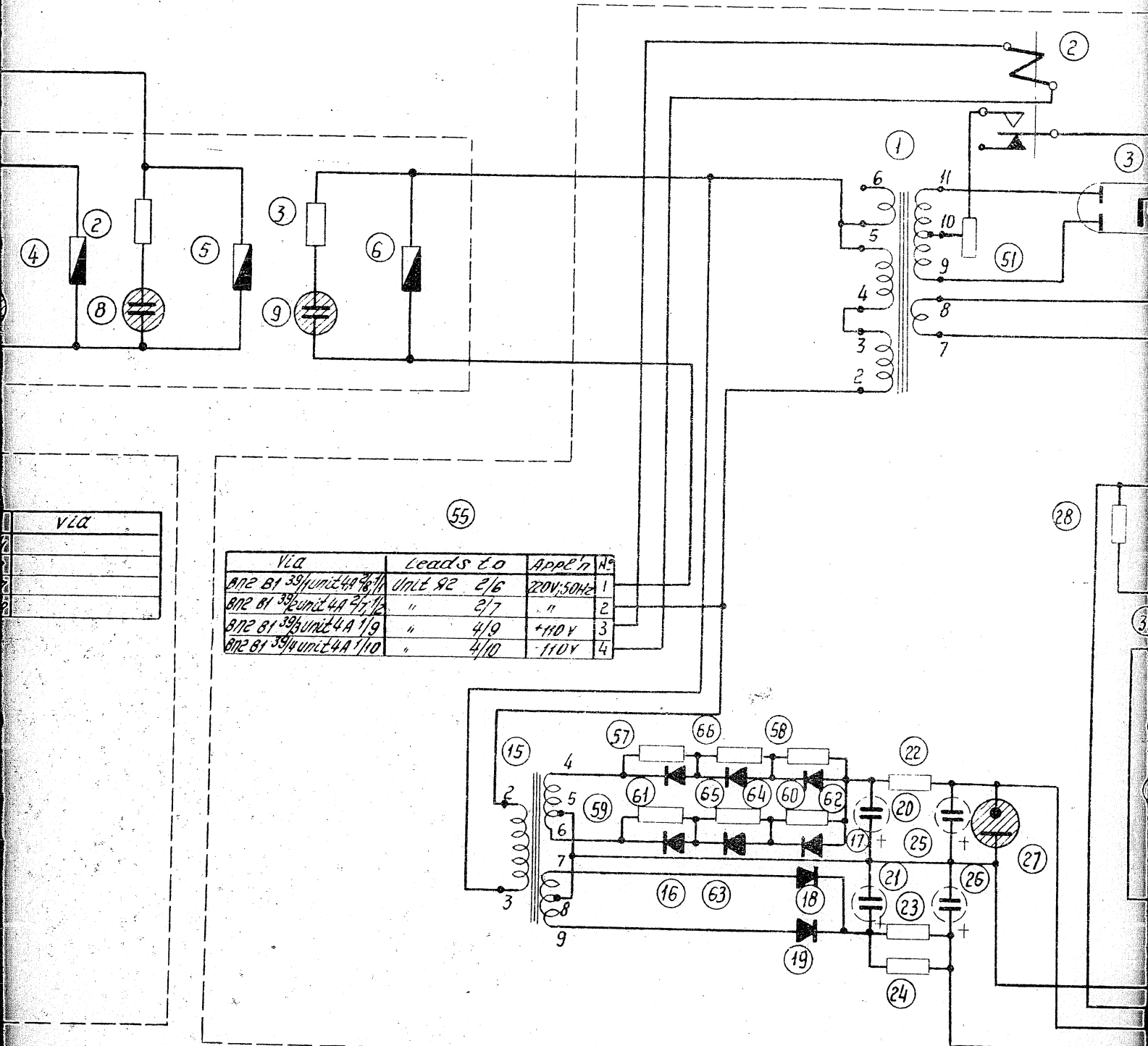
Rectifier 1

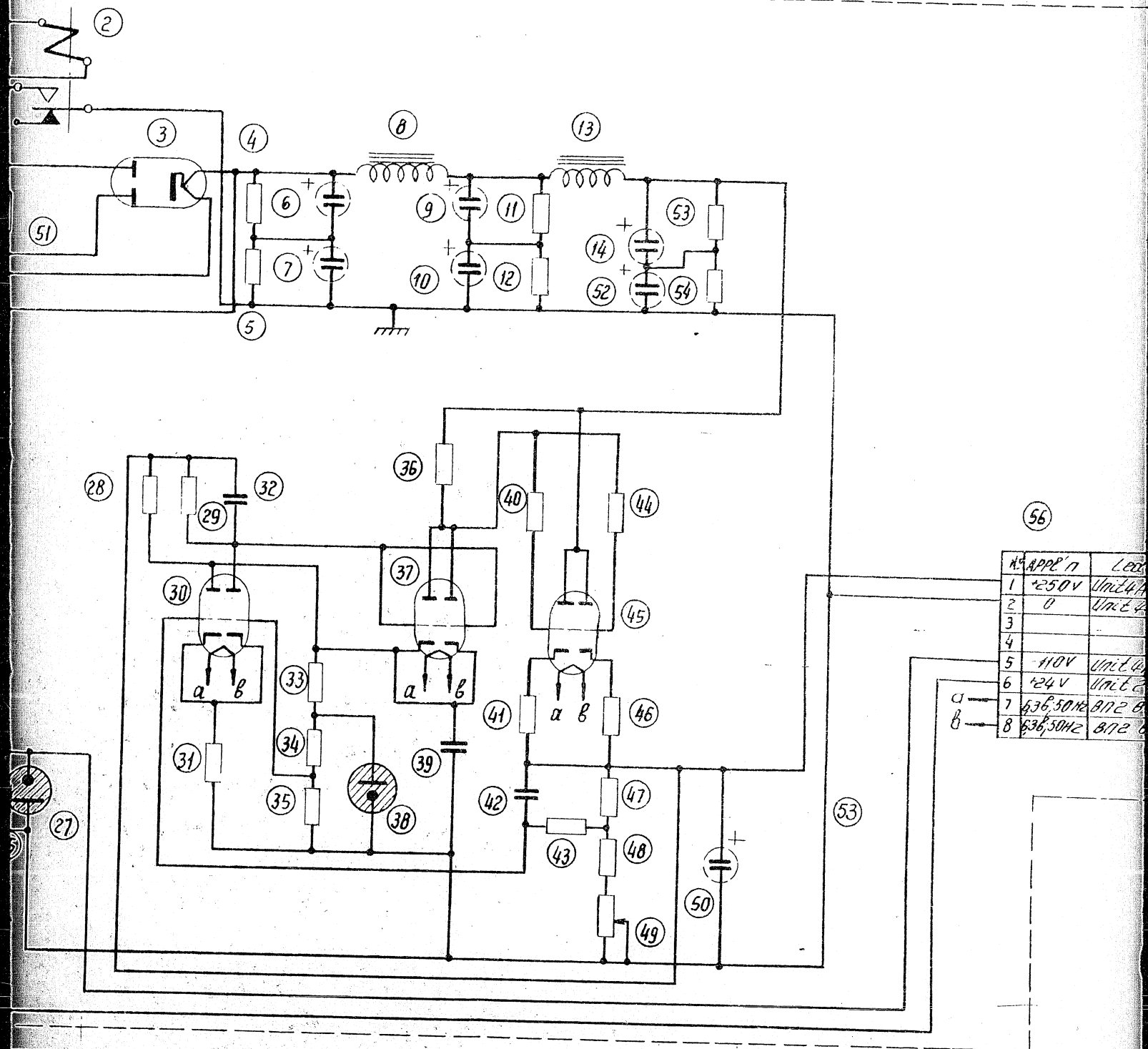


Rectifier 1



Nº	APPEN	Leads to	VLA
1	+250V	Unit 44 S-U4C4 6/1	
2	0	" " 5/2	
3	63V, 50HZ	8/12 82 56/7	
4	63V, 50HZ	" " 56/8	





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N ^o	APPE'N	Leads to	Via
1	250V	Unit 4ASU 4C2 24/2	
2	0	Unit 4ASU 4C2 24/4	
3			
4			
5	110V	Unit 4ASU 4C2 24/3	
6	24V	Unit 2SU 8123 32/9	
7	636,50Hz	812 81 40/3	
8	636,50Hz	812 81 40/4	

a —
b —

(53)

For parts list, see NY2.087.085.A

sub-unit 812
circuit
diagram

NY2.087.085.CX3

sheet : 1 sheets : 1

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Re-mark
1	AV2.087.106	Rectifier 1			
2	HBT4.70.0070n	Transformer Ip 3250	E-type core 32x50	1	
3		Delay FIBBI P04.523.		1	
4, 5	GOST 7113-66	Tube 6X83		1	
6, 7		Resistor MHT-1-100K±5%	100 kohms	2	
8	HBT4.750.0070n	Capacitor MT-0-150/20-4	20 mfd	2	
9, 10		Choke Ip 2020	E-type core 20x20	1	
11, 12	GOST 7113-66	Capacitor MT-0-150/20-4	20 mfd	2	
13	HBT4.750.0070n	Resistor MHT-1-100K±5%	100 kohms	1	
14		Choke Ip 2020	E-type core 20x20	1	
15		Capacitor MT-0-150/20-2	20 mfd	1	
16	HBT4.700.0090n	Transformer	E-type core 20x40	1	
17	GOST 7113-66	Resistor MHT-0-8,2K±10%	8.2 kohms	1	
18	GOST 7113-66	Resistor MHT-0,5-470K±10%	470 kohms	1	
19		Tube 6X28-AS		1	
20	GOST 6118-59	Capacitor KUT-M-600-0,01±10%	0.01 mfd	1	
21	GOST 7113-66	Resistor MHT-0,5-130K±10%	130 kohms	1	
22	GOST 7113-66	Resistor MHT-0,5-1,1K±10%	1.1 kohm	1	

SUB-UNIT 30.2

Parts List

AV2.087.085 II

Sheet: 1 Sheets: 5

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Remark
22	GOST 7113-66	Resistor MRT-0,5-56K $\pm$ 10%	56 kohms	1	
23	GOST 7113-66	Resistor MRT-0,5-68K $\pm$ 10%	68 kohms	1	
24		Tube, 6P27		1	
25	GOST 7113-66	Resistor MRT-0,5-560K $\pm$ 10%	560 kohms	1	
26		Tube 6B4H-38		1	
27	GOST 6413-59	Capacitor MPT-4- 400-0,05 $\pm$ 10%	0.05 mfd	1	
28	GOST 7113-66	Resistor MRT-0,5-560 $\pm$ 10%	560 ohms	1	
29		Tube 6L150		1	
30	GOST 7113-66	Resistor MRT-2-120 $\pm$ 10%	120 ohms	1	
31	GOST 6413-59	Capacitor MPT-4- 0-400-0,2 $\pm$ 10%	0.2 mfd	1	
32	GOST 7113-66	Resistor MRT-0,5-470K $\pm$ 10%	470 kohms	1	
33	GOST 7113-66	Resistor MRT-0,5-560 $\pm$ 10%	560 ohms	1	
34	GOST 7113-66	Resistor MRT-2-120 $\pm$ 10%	120 ohms	1	
35	GOST 7113-66	Resistor MRT-0,5-100K $\pm$ 10%	100 kohms	1	
36	GOST 7113-66	Resistor MRT-0,5-27K $\pm$ 10%	27 kohms	1	
37		Resistor ORO-2- 47K $\pm$ 20% GO-3-20	47 kohms	1	
38, 42		Capacitor 3Pn-6-450/20-A	20 mfd	2	
39, 40		Terminal block	4-term.	2	
41	GOST 6513-66	Resistor I H5BP- 30-240 $\pm$ 10%	240 ohms	1	

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Sheet: 2 Sheets: 5

Item No.	Standard, Spec. or Dwg. No.	Name, type	Value	No.	Re- mark
43, 44	GOST 7113-66	Resistor MRT-1-100K±5%	100 kohms	1	
	ИВ2.087.107	Rectifier 2			
1	ИДМ4.704.0170н	Transformer Tp 3250	E-type core 32x50	1	
2		Relay РММ		1	
3		PC-1.523.5170н Tube 5H80		1	
4, 5	GOST 7113-66	Resistor MRT-1-100K±5%	100 kohms	2	
6, 7		Capacitor CPL-6-450/20-M	20 mfd	2	
8	ИДМ4.750.0070н	Choke Ap 2020	E-type core 20x20	1	
9, 10		Capacitor CPL-6-450/20-M	20 mfd	2	
11, 12	GOST 7113-66	Resistor MRT-1-100K±5%	100 kohms	2	
13	ИДМ4.750.0070н	Choke Tp 2020	E-type core 20x20	1	
14		Capacitor CPL-6-450/20-M	20 mfd	1	
15	ИД4.709.032	Transformer		1	
16- 19		Diode Д 226		4	
20		Capacitor CPL-6-450/20-M	20 mfd	1	
21		Capacitor CPL-6-450/20-M	20 mfd	1	
22	GOST 7113-66	Resistor MRT-1-2.7K±10%	2.7 kohms	1	
23, 24	GOST 7113-66	Resistor MRT-2-510±10%	510 ohms	2	
25		Capacitor CPL-6-450/20-M	20 mfd	1	

ИВ2.087.085 А

Sheet: 3 Sheets: 5

Item No.	Standard, Spec. or DWG. No.	Name, type	Value	No.	Remark
26		Capacitor BPT-6-100/20-2	20 mfd	1	
27		Tube 6P25		1	
28	GOST 7113-66	Resistor MNT-2-0,25K $\pm$ 10%	5.2 kohms	1	
29	GOST 7113-66	Resistor MNT-0,5-470K $\pm$ 10%	470 kohms	1	
30		Tube 6H41-25		1	
31	GOST 7113-66	Resistor MNT-0,5-180K $\pm$ 10%	180 kohms	1	
32	GOST 6118-59	Capacitor KBT-M- 600-0,01 $\pm$ 10%	0.01 mfd	1	
33	GOST 7113-66	Resistor MNT-1-1,1K $\pm$ 10%	1.1 kohms	1	
34	GOST 7113-66	Resistor MNT-0,5-56K $\pm$ 10%	5.6 kohms	1	
35	GOST 7113-66	Resistor MNT-0,5-68K $\pm$ 10%	68 kohms	1	
36	GOST 7113-66	Resistor MNT-0,5-560K $\pm$ 10%	560 kohms	1	
37		Tube 6H27-20		1	
38		Tube 6P21		1	
39	GOST 6118-59	Capacitor KBT-M- 400-0,05 $\pm$ 10%	0.05 mfd	1	
40	GOST 7113-66	Resistor MNT-0,5-560 $\pm$ 10%	560 ohms	1	
41	GOST 7113-66	Resistor MNT-2-120 $\pm$ 10%	120 ohms	1	
42	GOST 6118-59	Capacitor KBT-M- 2-400-0,2 $\pm$ 10%	0.2 mfd	1	
43	GOST 7113-66	Resistor MNT-0,5-470K $\pm$ 10%	470 kohms	1	
44	GOST 7113-66	Resistor MNT-0,5-560 $\pm$ 10%	560 ohms	1	
45		Tube 6H13C		1	

ИР2.087.085 К

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Item No.	Standard, Spec. or Mfg. No.	Name, type	Value	No.	Remarks
46	GOST 7113-66	Resistor MT-0,5-100K-10%	120 ohms	1	
47	GOST 7113-66	Resistor MT-0,5-100K-10%	100 kohms	1	
48	GOST 7113-66	Resistor MT-0,5-100K-10%	27 kohms	1	
49		Resistor MT-0,5-100K-10%	47 kohms	1	
50		Capacitor MT-0,5-450/10-4	10 mfd	1	
51	GOST 6513-66	Resistor MT-0,5-100K-10%	270 ohms	1	
52	Capacitor	MT-0,5-450/10-4	20 mfd	1	
53, 54	GOST 7113-66	Resistor MT-1-100K-10%	100 kohms	2	
55		Terminal block 4-term.		1	
56		Terminal block 8-term.		1	
57- 60	GOST 7113-66	Resistor MT-0,5-100K-10%	100 kohms	4	
61- 64		Diode 1N46		4	
65, 66	GOST 7113-66	Resistor MT-0,5-100K-10%	100 kohms	2	
Common Parts					
1-3	GOST 7113-66	Resistor MT-2-32K-10%	33 kohms	3	
4-6	GOST 5040-53	Fuse BN-10-2	2 A	3	
7-9		Lamp MH-3		3	

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